This printed version of the Schedule of Classes is current as of 7/25/22 9:06 AM.

AASP African American Studies Summer 2022

AASP100 **Introduction to African American Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present. Interdisciplinary introduction to social, political, legal and economic roots of contemporary problems faced by blacks in the United States with applications to the lives of other racial and ethnic minorities in the Americas and in other societies.

0201	Jason Nichols **Meets July 11, 2022 - August 19, 2022** TuWTh 10:00am - 12:15pm	Seats (Total: 7) TYD 0111
WB11	Jason Nichols **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 30) ONLINE

AASP101 **Public Policy and the Black Community**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Formerly: AASP300.

The impact of public policies on the black community and the role of the policy process in affecting the social, economic and political well-being of minorities. Particular attention given to the post-1960 to present era.

WB11	Alana Hackshaw **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 25) ONLINE

AASP187 **The New Jim Crow: African-Americans, Mass Incarceration and the Prison Industrial Complex**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSHS, DVUP, SCIS

Recommended: AASP100.

Students will examine the birth of the racial caste system following the abolition of slavery, the parallels between the racial hierarchy of the Jim Crow system and contemporary mass incarceration, and the rise of the prison industrial complex as a multi-billon business which thrives on the oppression of low-income populations and poor communities of color.

WB21	Ashley Newby	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

AASP211 **Get Out: The Sunken Place of Race Relations in the Post-Racial Era**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP, SCIS

Credit only granted for: AASP298G or AASP211. Formerly: AASP298G.

Prevailing thought suggests that we live in an era that is post-racial, particularly after the election of Barack Obama. Media often serves to drive our assessment of where our nation stands on issues like race, gender and sexuality. This course uses the film Get Out to delve into the production, evolution and significance of race in present day America. The course will engage multiple forms of media to investigate life in "Post-Racial" America, including but not limited to the role of stereotypes, interracial relationships, police-community relations, etc.

WB11	Shane Walsh	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
WB21	Shane Walsh	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

AASP398P **Selected Topics in the African Diaspora; Peoples and Culture of Africa**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Analysis of the historical experiences and cultures of Africans in the diaspora.

Contact department for information to register for this course.

AASP468Y **Special Topics in Africa and the Americas; Exploring Contemporary South Africa**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Cultural, historical and artistic dimensions of the African experience in Africa and the Americas.

Contact department for information to register for this course.

AASP468Z **Special Topics in Africa and the Americas; Understanding Social Inequalities in Post-Apartheid South Africa**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Cultural, historical and artistic dimensions of the African experience in Africa and the Americas.

Contact department for information to register for this course.

AASP498E **Special Topics in Black Culture; A Critical Understanding of Hip Hop Culture and its Impact on Society**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

A critical exploration of Hip Hop and how it transcends race, socioeconomic background, culture, and gender.

WB11	Solomon Comissiong	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

AASP498I **Special Topics in Black Culture; Women and the Civil Rights Movement**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

Also offered as HIST360 and WMST498M. Credit granted for AASP498I, HIST360 or WMST498M.

WB31	Elsa Barkley Brown	Seats (Total: 40)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

AASP498R **Special Topics in Black Culture; Race and Sports**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

WB21	Tasha Harris **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 25) ONLINE

AAST Asian American Studies Summer 2022

AAST355 **Asian Americans in Film**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Cross-listed with: AMST328W. Credit only granted for: AAST355, AAST398L or AMST328W. Formerly: 398L.

Explores how Asian Americans have historically been represented in the U.S. by Hollywood, and in turn, how independent and Hollywood Asian American filmmakers have represented themselves. It covers the history of racial, gendered, and sexualized representations of Asian Americans in Hollywood, as well as Asian American filmic responses within and outside Hollywood. It also introduces how four basic tools of film analysis mise-en-scene, cinematography, editing and sound work together to create meaning in moving images. It examines how these elements are put together in three different types of films by Asian American filmmakers: narrative, documentary, and experimental. How films function in society to circulate ideas that reproduce and challenge stereotypes about Asian Americans.

WB31	Binod Paudyal **Meets May 31, 2022 - June 17, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB32	Binod Paudyal **Meets May 31, 2022 - June 17, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE

AGNR Agriculture and Natural Resources Summer 2022

AGNR100 **Agriculture Discovery: An Educational Odyssey Exploring Food, Culture, and the Environment**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Explores the history, cultural impact, and current issues of agriculture. Students are exposed to the wide range of professional opportunities associated with the use of plants and animals in the production and processing of food for human consumption. Students learn from Agriculture and Natural Resources (AGNR) faculty and USDA collaborators through lectures, labs and field trips to facilities in the Baltimore-Washington area.

YS41	Evelyn Cooper	Seats (Total: 16)
	Meets July 11, 2022 - July 29, 2022	
	MTuWThF 10:00am - 3:00pm	MTH B0431
	Restricted to students in Terp Young Scholars.	

AGNR301 **Sustainability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Cross-listed with: PLCY301. Credit only granted for: AGNR301, PUAF301, or PLCY301. Formerly: PUAF301.

Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?

WB31	Edward Sinnes	Seats (Total: 40)
	Meets May 31, 2022 - June 17, 2022	
	MTuWThF 2:00pm - 5:00pm	ONLINE

AGNR499 **Special Problems**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

AGNR499A **Special Problems; Azerbaijan: Environmental Issues and a Cultural Experience**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

AMSC Applied Mathematics & Scientific Computation Summer 2022

AMSC460 **Computational Methods**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (CMSC106, CMSC131); and minimum grade of C- in MATH246. Cross-listed with: CMSC460. Credit only granted for: AMSC460, AMSC466, CMSC460, or CMSC466.

Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences.

All sections will use MATLAB.

WB11	Stefan Doboszczak **Meets May 31, 2022 - July 8, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 30) ONLINE
WB21	Christopher Moakler **Meets July 11, 2022 - August 19, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 20) ONLINE

AMSC498A **Selected Topics in Applied Mathematics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Topics in applied mathematics of special interest to advanced undergraduate students.

Contact department for information to register for this course.

AMSC689 **Research Interactions in Applied Mathematics and Scientific Computation**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

AMSC689A **Research Interactions in Applied Mathematics and Scientific Computation**

Credits: 1-3 Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

AMSC698A **Advanced Topics in Applied Mathematics**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Contact department for information to register for this course.

AMSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

AMSC898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

AMSC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

AMST American Studies Summer 2022

AMST101 **Introduction American Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO, D General Education: DSHU, DVUP

Credit only granted for: AMST101 or AMST201. Formerly: AMST201.

Introduces students to the interdisciplinary field of American Studies by examining concepts such as culture, identity, cultural practices, and globalization, as well as theories underlying these concepts. Engages key themes, especially constructions of difference and identity, cultures of everyday life, and America and the world.

WB11	Wanda Hernandez	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

WB21	Devon Betts **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE

AMST203 **Popular Culture in America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, DVUP

An introduction to American popular culture, its historical development, and its role as a reflection of and influence on our culture and society.

WB11	Zachary Johnson **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB12	Dallas Donnell **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB21	Hazim Abdullah-Smith **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE

AMST213 **Heroes and Villains in American Film**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Cross-listed with: CINE282. Credit only granted for: AMST213, HONR219F, CINE282 or FILM298V. Formerly: HONR219F, FILM298V.

We will examine the complex, changing, and ever-present representations of heroes and villains in American film. Beginning with a foundational understanding of how heroes and, conversely, villains have been defined through classic Hollywood film, we will explore how these definitions have shifted throughout the 20th and 21st century in various narrative genres, including westerns, war films, film noir, fantasy, science fiction, and, of course, superhero movies. In particular, we will be focusing on how the hero and villain maintain or disrupt specific cultural ideologies concerning race/ethnicity, gender, sexuality, and ability. This course will examine how these various ideologies have evolved throughout the 20th and 21st century, impacting the ways in which heroes and villains are both represented in American film and perceived by diverse audiences. Finally, we will examine our own complicated and sometimes troubling identification with these heroes, even when they might stand in stark contrast to our cultural values and identities.

0401	Susan Pramschufer **Meets July 11, 2022 - July 29, 2022** MTuWThF 10:00am - 1:00pm	Seats (Total: 7) ASY 3203
YS41	Susan Pramschufer **Meets July 11, 2022 - July 29, 2022** MTuWThF 10:00am - 1:00pm *Restricted to students in Terp Young Scholars.*	Seats (Total: 16) ASY 3203

AMST269I **Special Topics in Study Abroad II; Images of Italian Americans in Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

AMST290 **Shifting Sands: Constructing Cultural Mainstreams and Margins in the U.S.**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSHS, DSHU, DVUP, SCIS

Credit only granted for: AMST289A or AMST290. Formerly: AMST289A.

Examines the construction, operation, and meaning of cultural mainstreams and margins in a range of contexts, spaces, and times in the U.S. Using a variety of primary sources, research methods, and interdisciplinary scholarship, we will explore how Americans make and assign meaning to cultural mainstreams and margins. We will examine how and why cultural margins and mainstreams shift over time and what their consequences have been for social policies, laws, power relations, and national identity.

WB21	Robert Chester **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 25) ONLINE

AMST369F **Special Topics in Study Abroad III**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

AMST398 **Independent Studies**

Credits: 1-3 Grading Method: Regular

Provides the student with the opportunity to pursue independent, interdisciplinary research and reading in specific areas of American culture studies.

I101	Instructor: TBA **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

AMST498F **Special Topics in American Studies; Global Media Literacy**

Credits: 3 Grading Method: Regular

Topics of special interest.

Contact department for information to register for this course.

AMST798 **Non-Thesis Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

AMST799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

I101	Instructor: TBA **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 1)
I201	Instructor: TBA **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)

AMST857 **Museum Scholarship Practicum**

Credits: 3-6 Grading Method: Regular, Sat-Fail

Prerequisite: AMST856, ANTH856, or HIST810. Restriction: Permission of Museum Scholarship Program required. Cross-listed with: ANTH857, HIST811, INST787. Credit only granted for: AMST857, ANTH857, HIST811, INST728I or INST787.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

I101	Paul Jaeger	Seats (Total: 1)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

AMST899 **Doctoral Dissertation Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ANSC Animal Science Summer 2022

ANSC359 **Internship Experience in Animal and Avian Sciences**

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Experiential learning is a key component in an animal science education. Through the internship program, you will have the opportunity to develop your expertise in a specific species and discipline within the animal science curriculum. You will arrange an on- or off-campus internship experience related to animal science. You will spend a specified number of hours at the internship site each week and attend biweekly classroom sessions where we will discuss how the study of animal science fits into your specific internship experience as well as understand how to achieve each of the course learning outcomes.

WB11	Monica VanKlompenberg	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ANSC389 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

0171	Shawna Weimer	Seats (Total: 10)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0201	Sarah Balcom	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	
0218	Christine Hakenkamp	Seats (Total: 10)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

0271	Shawna Weimer	Seats (Total: 10)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

ANSC399 **Special Problems in Animal Science**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Work assignments are designed to be proportional to the amount of credit. Students are expected to develop an abstract, fact sheet, manuscript, oral presentation, poster, webpage, journal-log, or other scholarly product associated with their study and/or project.

Contact department for information to register for this course.

ANSC489 **Current Topics in Animal Science**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Examination of current developments in the animal sciences.

0142	Carol Keefer	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

ANSC699 **Special Problems in Animal Science**

(Perm req)

Credits: 1-2 Grading Method: Regular, Audit

Work assigned in proportion to amount of credit. Prerequisite: approval of staff. Problems will be assigned which relate specifically to the character of work the student is pursuing.

Contact department for information to register for this course.

ANSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ANSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ANSC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ANTH Anthropology Summer 2022

ANTH222 **Introduction to Ecological and Evolutionary Anthropology**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL, DVUP

Credit only granted for: ANTH220 or ANTH222.

An introduction to the evolution of human physiology and human behavior, the relationship between hominid and non-hominid primates, and the study of relationships between a population of humans and their biophysical environment.

ANTH222 is a 4-credit lab course. Students should expect to spend approximately 45 hours for the asynchronous lecture and discussion portion of the course in addition to the 30 synchronous lab hours.

0401	Miguel Vilar	Seats (Total: 20)	
	Meets July 11, 2022 - July 29, 2022		
	Class time/details on ELMs	ONLINE	
	MW 1:00pm - 6:00pm	ESJ 1324	Lab
	Class time/details on ELMs	ONLINE	Discussion
0402	Miguel Vilar	Seats (Total: 20)	
	Meets July 11, 2022 - July 29, 2022		
	Class time/details on ELMs	ONLINE	
	TuTh 1:00pm - 6:00pm	ESJ 1324	Lab
	Class time/details on ELMs	ONLINE	Discussion

ANTH238B **Special Topics Study Abroad II; Lived Existence: Perspective in Native American Identity**

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ANTH240 **Introduction to Archaeology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Exploration of the variety of past human societies and cultures through archaeology, from the emergence of anatomically modern humans to the more recent historical past.

WB11	Joshua Samuels	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs F 3:30pm - 4:30pm	ONLINE ONLINE

ANTH263 **Sexuality and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Credit only granted for: ANTH298K or ANTH263. Formerly: ANTH298K.

An overview of sexuality from an anthropological perspective, looking at aspects of sexuality within our own culture and in cultures around the world. Course topics include the biology and culture of sex, gender, physical attraction, sexual orientation, marriage and mating taboos, fertility control, sexually transmitted diseases, and commercial aspects of sex.

WB11	Jeanne Hanna	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

ANTH265 **Anthropology of Global Health**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVUP, SCIS

An overview of the growing field of global health including health care systems, medical practices, ideas about illness in cross-cultural contexts, issues of health development, global health inequity, and human rights issues. The course will focus on the history of global health, the critique of major international health agencies and their development paradigms, and the political economy of social inequalities and health.

WB11	Laura Gilchrest	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs W 10:00am - 12:00pm	ONLINE ONLINE

ANTH266 **Changing Climate, Changing Cultures**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVCC, SCIS

Explore past, present, and future interactions between humans and climate. Discussions, methods-oriented activities, and case study analyses provide students a foundation for appreciating the role of anthropology in understanding, responding to, and preparing for climate change.

WB21	Jana Kopelentova Rehak	Seats (Total: 30)	
	Meets July 11, 2022 - August 19, 2022		
	Class time/details on ELMs	ONLINE	
	Th 7:30pm - 9:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
WB31	Jana Kopelentova Rehak	Seats (Total: 30)	
	Meets May 31, 2022 - June 17, 2022		
	Class time/details on ELMs	ONLINE	
	TuTh 7:30pm - 9:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

ANTH323 **Plagues, Pathogens and Public Policy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Credit only granted for: ANTH429A or ANTH323. Formerly: ANTH429A.

The impact of diseases on populations from prehistoric times through the present will be examined, along with public perceptions of disease, scientific breakthroughs on treatment and prevention, and the ways that politics and public health policies can enhance or impede the advancement of disease treatment. The natural history of disease, population structure, and immunity will be discussed. The class will address emerging and re-emerging diseases and the ways that first responders, researchers, and policy makers may affect the outcome of an outbreak.

WB41	Laura Gilchrest	Seats (Total: 30)	
	Meets July 11, 2022 - July 29, 2022		
	Class time/details on ELMs	ONLINE	
	W 10:00am - 12:00pm	ONLINE	

ANTH357 **Approaches to Sustainable Development**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Credit only granted for: ANTH298E or ANTH357. Formerly: ANTH298E.

An overview of the history of sustainable development, major development and environmental theories, and development strategies as they relate to an anthropological concern for an integrated, holistic, comparative, and humane approach to sustainable development.

WB11	Melissa Stevens	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

ANTH386 **Experiential Learning**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail

Recommended: Completion of advanced courses in relevant subfield of anthropology recommended. Restriction: Permission of BSOS-Anthropology department; and junior standing or higher; and must be in Anthropology program.

Contact department for information to register for this course.

ANTH398J **Independent Study; Archaeology Practicum**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH473 **Native American Languages and Cultures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Jointly offered with: ANTH673. Credit only granted for: ANTH473 or ANTH673.

An introduction to Native American Languages and Cultures from a linguistic anthropological perspective. Topics to be explored include Native American identities, the stucture of Native languages, oral traditions, narrative story-telling, Native language and thought (Sapir/Whorf), language shift, linguistic revitalization, documentation of endangered languages, indigenous representation and appropriation, and racializing discourses.

WB61	Jacqueline Messing	Seats (Total: 20)
	Meets August 1, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ANTH474 **Language, Racism & Identity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Jointly offered with: ANTH674. Credit only granted for: ANTH474, ANTH469R, ANTH674, or ANTH689R.

An exploration of the relationship between language, identity and racism in a variety of social contexts, in the U.S. and elsewhere.

WB31	Jacqueline Messing	Seats (Total: 20)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

ANTH496 **Field Methods in Archaeology**

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, DVUP

Field training in the techniques of archaeological survey and excavation.

XI11	Stefan Woehlke	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	MTuWThF 8:00am - 5:00pm	Location: TBA
	Students will be responsible for their own transportation to North Brentwood, Maryland.	

ANTH498C **Advanced Field Training in Ethnography; Brazil: Environmental Conservation & Indigenous Peoples**

Credits: 3-6 | Grading Method: Regular, Pass-Fail, Audit

Experience in field research utilizing a variety of ethnographic methods of inquiry.

Contact department for information to register for this course.

ANTH498J **Advanced Field Training in Ethnography; Jamaica: Ethnographic Fieldwork/Ethnographic Assessment and Expressive Culture**

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit

Experience in field research utilizing a variety of ethnographic methods of inquiry.

Contact department for information to register for this course.

ANTH498M **Advanced Field Training in Ethnography; Suriname: Ethnographic Fieldwork-National Celebration, Integration and Identity**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Experience in field research utilizing a variety of ethnographic methods of inquiry.

Contact department for information to register for this course.

ANTH498W **Advanced Field Training in Ethnography; Jamaica: Connections, Celebration and Identity**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Experience in field research utilizing a variety of ethnographic methods of inquiry.

Contact department for information to register for this course.

ANTH657 **Approaches to Sustainable Development**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ANTH657 or ANTH357.

An overview of the history of sustainable development, major development and environmental theories, and development strategies as they relate to an anthropological concern for an integrated, holistic, comparative, and humane approach to sustainable development.

WB11	Melissa Stevens	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

ANTH673 **Native American Languages and Cultures**

Credits: 3 Grading Method: Regular, Audit

Jointly offered with: ANTH473. Credit only granted for: ANTH673 or ANTH473.

An introduction to Native American Languages and Cultures from a linguistic anthropological perspective. Topics to be explored include Native American identities, the stucture of Native languages, oral traditions, narrative story-telling, Native language and thought (Sapir/Whorf), language shift, linguistic revitalization, documentation of endangered languages, indigenous representation and appropriation, and racializing discourses.

WB61	Jacqueline Messing	Seats (Total: 20)
	Meets August 1, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ANTH674 **Language, Racism & Identity**

Credits: 3 Grading Method: Regular, Audit

Jointly offered with: ANTH474. Credit only granted for: ANTH474, ANTH469R, ANTH674, or ANTH689R.

This course explores the relationship between language, identity and racism in a variety of social contexts, in the U.S. and elsewhere.

WB31	Jacqueline Messing	Seats (Total: 20)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

ANTH689M **Special Problems in Anthropology; Suriname: Ethnographic Fieldwork-National Celebration, Integration and Identity**

Credits: 3 Grading Method: Regular

Contact department for information to register for this course.

ANTH696 **Field Methods in Archaeology**

Credits: 6 Grading Method: Regular, Audit

Formerly: ANTH699.

Field training in the techniques of archaeological survey and excavation.

Cross-listed with ANTH496 and SUMM015.

XI11	Stefan Woehlke	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	MTuWThF 8:00am - 5:00pm	Location: TBA

ANTH698C **Advanced Field Training in Ethnology; Brazil: Ethnographic Fieldwork**

Credits: 3-6 Grading Method: Regular, Audit

Experience in field research utilizing a variety of enthnographic methods of inquiry.

Contact department for information to register for this course.

ANTH698J **Advanced Field Training in Ethnology; Jamaica: Ethnographic Fieldwork/Ethnographic Assessment and Expressive Culture**

Credits: 6 Grading Method: Regular, Audit

Experience in field research utilizing a variety of enthnographic methods of inquiry.

Contact department for information to register for this course.

ANTH698W **Advanced Field Training in Ethnology; Jamaica: Connections, Celebration and Identity**

Credits: 6

Grading Method: Regular, Audit

Experience in field research utilizing a variety of enthnographic methods of inquiry.

Contact department for information to register for this course.

ANTH701 **Anthropology Internship Preparation**

Credits: 3

Grading Method: Regular, Audit

Preparation for internship includes practicum training in development, presentation and evaluation of position papers, proposals and work plans; literature search and use of secondary data sources in decision making the effect cultural analysis and resource management; ethics and professional development for work in non-academic settings.

I112	Paul Shackel	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

ANTH749 **Cultural and Heritage Resource Management Internship**

Credits: 1-6

Grading Method: Regular, Audit

An internship/practicum that would contribute to students' understanding of the overall process of CHRM. Students who are already working in CRM or a closely related field may use their employment as their practicum if the opportunity is available for them to learn beyond their current job duties.

PLA1	Matthew Palus	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Cultural & Heritage Resource Management Program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.	

ANTH789 **Internship**

Credits: 3-6

Grading Method: Regular, Audit, Sat-Fail

Individual instruction course supervised by a department faculty member.

I102	Matthew Thomann	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

I103	Andrea Lopez **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I104	Yancey Orr **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I105	Judith Freidenberg **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I106	Janet Chernela **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I107	Michael Paolisso **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I108	Thurka Sangaramoorthy **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I109	Madeline Brown **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I110	L Jen Shaffer **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I111	Mark Leone **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I112	Paul Shackel **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

I113	Stephen Brighton **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I114	George Hambrecht **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I115	Christina Getrich **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I116	Kathryn Lafrenz Samuels **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I117	Barnet Pavao-Zuckerman **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I118	Joseph Richardson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I202	Matthew Thomann **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I203	Andrea Lopez **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I204	Yancey Orr **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I205	Judith Freidenberg **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

I206	Janet Chernela **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I207	Michael Paolisso **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I208	Thurka Sangaramoorthy **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I209	Madeline Brown **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I210	L Jen Shaffer **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I211	Mark Leone **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I212	Paul Shackel **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I213	Stephen Brighton **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I214	George Hambrecht **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I215	Christina Getrich **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

I216	Kathryn Lafrenz Samuels	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	
I217	Barnet Pavao-Zuckerman	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	
I218	Joseph Richardson	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

ANTH799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

PLA1	Matthew Palus	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Cultural & Heritage Resource Management Program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.	

ANTH857 **Museum Scholarship Practicum**

Credits: 3 Grading Method: Regular

Prerequisite: AMST856, ANTH856, or HIST810. Restriction: Permission of Museum Scholarship Program required. Cross-listed with: AMST857, HIST811, INST787. Credit only granted for: AMST857, ANTH857, HIST811, INST728I or INST787.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

I201	Mary Alexander	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

AOSC Atmospheric and Oceanic Science Summer 2022

AOSC123 **Causes and Consequences of Global Change**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: PS	General Education: DSNS, SCIS

Cross-listed with: GEOL123. Credit only granted for: AOSC123, GEOG123, GEOL123, or METO123.

Study of the major components of Earth's climate system and climate change history. Discussion of 21st century climate change prediction, mitigation and adaptation efforts.

WB21	Samantha Kemper	Seats (Total: 40)
	Meets July 11, 2022 - August 19, 2022	
	MTuWThF 12:00pm - 1:20pm	ONLINE

AOSC200 **Weather and Climate**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: PS	General Education: DSNL (if taken with AOSC201), DSNS, SCIS

Prerequisite: MATH107, MATH110, or MATH115. Recommended: Concurrent enrollment in AOSC201.

What are weather and climate? Most people think they know but if you ask people to explain the differences and similarities you're bound to get a range of answers. Weather affects not just our daily activities but other important aspects of society such as transportation, commerce, security and agriculture. Most people understand what weather is to some extent. Climate and climate change are concepts that evoke strong emotional responses from people but are less well understood. In this class, students examine fundamental issues such as the greenhouse effect, severe weather, and global weather patterns and how they relate to a changing climate. Instruction in the lectures will provide the basic knowledge needed to understand these issues. In the discussion sections, students will be divided into groups to address the implications of these topics through group projects.

WB11	Jeffrey Henrikson	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	MTuWThF 12:00pm - 1:20pm	ONLINE

AOSC201 **Weather and Climate Laboratory**

Credits: 1	Grading Method: Regular, Pass-Fail, Audit	CORE: PL

Corequisite: AOSC200. Formerly: METO201.

Laboratory exercises to supplement AOSC200, including weather observations, weather map analysis, use of the Internet, forecasting practice and climate modeling.

WB11	Natalia Roldan Henao, Jhayron Perez Carrasquilla, Akarsh Ralhan **Meets May 31, 2022 - July 8, 2022** TuTh 2:00pm - 4:00pm	Seats (Total: 30) ONLINE

AOSC247 **Scientific Programming: Python**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH140. Recommended: Familiarity with basic descriptive statistics. Credit only granted for: AOSC458J, AOSC247 or CMSC131. Formerly: AOSC458J.

A comprehensive introduction to scientific computation and visualization techniques with Python applied to data intensive questions in the Natural Sciences. The class emphasizes real-world applications, providing students with essential hands-on experience using Python for data analysis and visualization, developing analytical skills for observational and modeling data, and performing virtual experiments to distinguish data contributing factors. Students will gain an understanding of the scientific data issues including: signal vs noise, trend vs periodicity, mean vs extreme changes, and accuracy vs uncertainty. Students will gain extensive experience using command line linux. Skills including local and remote file transfer and synchronization, file and directory permission, utilities for diagnosing performance issues, and data compression.

Students must pay a $60.00 laboratory materials fee.

WB11	Jeffrey Henrikson **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 40) ONLINE

AOSC499 **Special Problems in Atmospheric Science**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research or special study in the field of meteorology and the atmospheric and oceanic sciences.

0108	Rachel Pinker **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0112	Timothy Canty **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

0206	Ning Zeng **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)
0208	Rachel Pinker **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0212	Timothy Canty **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

AOSC798 **Directed Graduate Research**

Credits: 1-3 Grading Method: Sat-Fail

0101	James Carton **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0103	Raghu Murtugudde **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0104	Raghu Murtugudde **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0105	Antonio Busalacchi **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0112	Timothy Canty **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0115	Kenneth Pickering **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 1)

0126	Da-Lin Zhang **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0203	Kayo Ide **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0204	Raghu Murtugudde **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0205	Da-Lin Zhang **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0206	Kenneth Pickering **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0207	Zhanqing Li **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0208	Dale Allen **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0221	Ernesto Berbery **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0225	Xin-Zhong Liang **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

AOSC898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

AOSC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ARAB Arabic Summer 2022

ARAB104 **Elementary Modern Standard Arabic I-II**

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

An intensive course focusing on developing functional proficiency in the standard Arabic language, both written and formal spoken. Begins with script and phonology, and develops into a limited range of situation-based texts and topics that build vocabulary, grammar, general communicative competence and cultural awareness.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL11	Noura Bellali	Seats (Total: 15)
	Meets May 31, 2022 - July 1, 2022	
	MTuWThF 9:00am - 5:00pm	HJP 3120

ARAB105 **Elementary Modern Standard Arabic III-IV**

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB104; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

Continuation of ARAB104, developing further linguistic proficiency in Standard Arabic, both written and formal spoken. Covers an extended range of situation-based texts and topics that build vocabulary, grammar, general communicative competence and cultural awareness.

Registration limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL21	Noura Bellali	Seats (Total: 15)
	Meets July 6, 2022 - July 29, 2022	
	MTuWThF 9:00am - 5:00pm	HJP 3120

ARAB204 **Intermediate Modern Standard Arabic I**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

CORE: HO

Prerequisite: ARAB105; and must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

Covers topics related to contemporary Arabic society, literature and culture in standard written and formal spoken Arabic. Acquisition of more complex grammatical structures, expanding vocabulary, and reading, to develop a better understanding of the formal aspects of using MSA.

XL11	Samah Al-salami	Seats (Total: 15)
	Meets May 31, 2022 - July 1, 2022	
	MTuWThF 9:00am - 5:00pm	HJP 2118

ARAB205 **Intermediate Modern Standard Arabic II**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

CORE: HO

Prerequisite: ARAB204; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

Continuation of ARAB204, with exposure to a wide range of Arabic texts from different domains. Focus on vocabulary, more complex grammatical forms, and a better understanding of the formal aspects of using MSA as well as the cultural aspects of using the language.

XL21	Samah Al-salami	Seats (Total: 15)
	Meets July 6, 2022 - July 29, 2022	
	MTuWThF 9:00am - 5:00pm	Location: TBA

ARAB315 **Intensive Advanced Arabic I**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB205; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not have completed ARAB304.

Intensive training in written and spoken Arabic at the Advanced-low level of proficiency. Additional intensive training in effective listening and reading skills. Substantial cultural component exploring traditions and customs of the Middle East in addition to current social issues.

XL11	Lutf Alkebsi	Seats (Total: 15)
	Meets May 31, 2022 - July 1, 2022	
	MTuWThF 9:00am - 5:00pm	HJP 2114

ARAB316 **Intensive Advanced Arabic II**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB304 or ARAB315; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not have completed ARAB305. Credit only granted for: ARAB305 or ARAB316.

Intensive training in written and spoken Arabic at the Advanced-mid level of proficiency. Additional training in effective listening and reading skills. Substantial cultural component exploring traditions and customs of the Middle East in addition to current social issues.

XL21	Lutf Alkebsi	Seats (Total: 15)
	Meets July 6, 2022 - July 29, 2022	
	MTuWThF 9:00am - 5:00pm	Location: TBA

ARAB499T **Special Topics in Arabic Studies; Middle Eastern Cinema: Comedy, Horror, Politics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.

A close look at transregional genres in contemporary Middle Eastern cinemas, with the focus on comedy, horror, and political cinema. Taught in English. Taught online, asynchronous format. Cross-listed with CINE429T. Credit only granted for ARAB499T, CINE429T, or FILM429T.

WB51	Valerie Anishchenkova	Seats (Total: 25)
	Meets June 21, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

ARCH Architecture Summer 2022

ARCH150 **Discovering Architecture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARCH-Architecture Program.

Introduction to architecture and design studio education. The course examines fundamental design principles and skills related to architecture. The design studio projects apply ideas and concepts introduced in lectures, readings and on site visits. The design studio projects are both analytic and synthetic in nature. The explicit goals of the course are: To explore the discipline of architecture; To promote visual thinking and representational skills; To develop analytic design thinking skills; To learn some of the conventions of architectural representation; To enhance cultural awareness of architecture and design.

Students learn about careers in architecture, landscape architecture and urban planning. Architecture faculty teach basic design principles that students use to complete their own design project in a design studio environment.

YS41	Michael Abrams	Seats (Total: 17)	
	Meets July 11, 2022 - July 29, 2022		
	MTuTh 10:00am - 11:15am	ARC 1101	
	MTuWThF 12:00pm - 2:00pm	ARC 0101	Lab
	Restricted to students in Terp Young Scholars.		

ARCH200 **Design Media and Representation I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program.

Study of architectural representation in physical and digital design media. Examine visual literacy and visual communications through applied drawing, modeling and visual making to explore the role of design media and representation in design and design thinking.

0101	Michael Abrams	Seats (Total: 25)	
	Meets May 31, 2022 - July 8, 2022		
	MW 10:00am - 11:00am	ARC 1101	
	MW 11:10am - 1:35pm	ARC 0101	Lab

ARCH225 **History of World Architecture I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Pre-1500 World Architecture survey course - History of Architecture structured to develop critical thinking and visually literacy with regard to the worldwide legacy of design thinking and cultural production through architecture

0201	Joseph Williams	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	TuWThF 2:00pm - 3:40pm	JMZ 1124

ARCH226 **History of World Architecture II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Post-1500 - History of Architecture survey course - History of Architecture structured to develop critical thinking and visually literacy with regard to the worldwide legacy of design thinking and building innovation in architecture

WB11	Juan Burke	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	TuWTh 10:00am - 12:15pm	ONLINE

ARCH300 **Design Media and Representation II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARCH200; or permission of ARCH-Architecture Program. Restriction: Must be in a major in ARCH-Architecture Program.

Study of architectural representation in physical and digital design media. Examine visual communications and speculative visual studies through applied drawing, modeling and making to explore expanded roles of representation in design and design thinking.

0101	Julia Klineberg	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	TuWThF 2:00pm - 3:40pm	ARC 0101

ARCH401 **Architecture Design Studio II**

(Perm req)

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ARCH400. Restriction: Must be in Architecture (B.S.) program.

Continuation of ARCH 400 with introduction to building typology, urban and contextual issues, design of the vertical surface, and architectural interiors.

0101	James Tilghman	Seats (Total: 15)
	Meets June 21, 2022 - August 20, 2022	
	TuTh 1:00pm - 4:30pm	ARC 0101
	Class time/details on ELMs	ONLINE

ARCH402 **Architecture Design Studio III**

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: Minimum grade of C- in ARCH401. Restriction: Must be in Architecture (B.S.) program.

Architectural design studio with emphasis on building and facade typologies, the development of architectural promenade and sequence, public and/or civic infill buildings dependent upon the architectural promenade, and urban housing types of varying densities. The architect's obligations to urban context are explored in many dimensions including historical, typological, and physical.

0101	Instructor: TBA	Seats (Total: 15)
	Meets May 31, 2022 - July 29, 2022	
	TuTh 1:00pm - 4:30pm	ARC 0101
	Class time/details on ELMs	ONLINE

ARCH408B **Special Topics Architecture Design Studio; Animal Occupation: At Home on the Water**

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit

Design Studio course to examine topical problems in architecture and urban design.

WB11	Sarah Bolivar	Seats (Total: 15)	
	Meets May 31, 2022 - July 29, 2022		
	MW 6:00pm - 9:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

ARCH408C **Special Topics Architecture Design Studio; Studio Elective: Anacostia Aviary**

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit

Design Studio course to examine topical problems in architecture and urban design.

WB11	Michael Ezban	Seats (Total: 15)	
	Meets May 31, 2022 - July 29, 2022		
	TuTh 1:00pm - 4:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	

ARCH408R **Special Topics Architecture Design Studio**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Design Studio course to examine topical problems in architecture and urban design.

Contact department for information to register for this course.

ARCH426 **History of Architecture II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARCH-Architecture Program. Credit only granted for: ARCH226 or ARCH426. Additional information: Graduate architecture history course requires additional recitation section and additional coursework tied to survey lectures.

Post-1500 - History of Architecture survey course - History of Architecture structured to develop critical thinking and visually literacy with regard to the worldwide legacy of design thinking and building innovation in architecture. Structured to nurture critical thinking and visually literacy with regard to the worldwide legacy of architecture. The work in the course will involve the evaluation of sources and arguments in reading architectural history. Architecture will be framed relative to ways of thinking, religious beliefs, cultural heritage, and cultural values.

WB11	Juan Burke	Seats (Total: 5)	
	Meets May 31, 2022 - July 8, 2022		
	TuWTh 10:00am - 12:15pm	ONLINE	

ARCH428B **Selected Topics in Architectural History; Vertical Communities: Programming for Urban Mobility**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

WB11	James Tilghman	Seats (Total: 15)	
	Meets May 31, 2022 - July 8, 2022		
	TuWTh 7:00pm - 9:10pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

ARCH428F **Selected Topics in Architectural History; A Global History of Modern Architecture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

WB11	Juan Burke	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	TuWTh 4:00pm - 6:15pm	ONLINE

ARCH428G **Selected Topics in Architectural History; Greek and Roman Cities of Southern Turkey**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428M **Selected Topics in Architectural History; The Architecture of Ancient Greece**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428P **Selected Topics in Architectural History; Domestic Architecture in Pompeii**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428Q **Selected Topics in Architectural History; Italy: Archaeological Investigations in the Vesuvian Region**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428V **Selected Topics in Architectural History; In the Shadow of Vesuvius: Architectural Recording for Archaeology: Italy**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428Y **Selected Topics in Architectural History; Archaeological Investigations in Roman Turkey**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428Z **Selected Topics in Architectural History; Understanding Missing Middle Typologies**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

0201	Marques King	Seats (Total: 15)	
	Meets July 11, 2022 - August 19, 2022		
	W 6:30pm - 9:00pm	JMZ 3122	
	Contact instructor or department for details.		

ARCH448B **Selected Topics in Visual Studies in Architecture; Design Drawing: Explorations in Mixed-Media**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Visual Studies in Architecture

WB11	Kenneth Filler	Seats (Total: 20)	
	Meets May 31, 2022 - July 8, 2022		
	TuTh 7:00pm - 8:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

ARCH464 **Architectural Structures I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARCH462, ARCH463, and PHYS121; and MATH120 or MATH140, or equivalent; or permission of the ARCH-Architecture Program. Corequisite: ARCH401 or ARCH406. Restriction: Must be in either BS in Architecture or M.Architecture Program. Credit only granted for: ARCH411 or ARCH464.

This course covers the basic principles of architectural structures, including the influence of geometric, sectional, and material properties related to flexure and shear in beam and framed systems; vector mechanics with application to analysis of trusses, catenaries, and arches; diagrammatic analysis of beams for bending moment, shear, and deflection as well as the study of structural framing systems for vertical and lateral loads.

WB11	Justin Eifert	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	TuTh 9:30am - 10:45am	ONLINE

ARCH465 **Architectural Structures II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARCH464 and PHYS121; and MATH120 or MATH140, or equivalent; or permission of the ARCH-Architecture Program. Restriction: Must be in either BS in Architecture or M. Architecture Program. Credit only granted for: ARCH412 or ARCH465.

The basic principles of elastic behavior for different materials such as wood, steel, concrete, and composite materials and compares the properties and applications of materials generally will be covered. It investigates cross sectional stress and strain behavior in flexure and in shear, and torsion as well as the stability of beams and columns. The qualitative behavior of combined stresses and fracture in materials is also covered.

WB21	Mostafa Fakharifar	Seats (Total: 20)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Tu 10:45am - 12:00pm	ONLINE
	Th 1:00pm - 2:15pm	ONLINE

ARCH466 **Environmental Systems in Architecture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARCH462 and ARCH463. Corequisite: ARCH403 or ARCH406. Restriction: Must be in either BS in Architecture or M. Architecture Program. Credit only granted for: ARCH413 or ARCH466.

Environmental systems in architecture presents the theory, quantification, and architectural design implications for heating ventilating and air conditioning, water and waste, fire protection, electricity, illumination, acoustics, and vertical transportation.

WB21	Ming Hu	Seats (Total: 20)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Tu 5:30pm - 8:30pm	ONLINE

ARCH470 **Computer Applications in Architecture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARCH400; or permission of ARCH-Architecture Program. Restriction: Must be in Architecture (B.S.) program.

Introduction to computer utilization, with emphasis on architectural applications.

WB11	Stefano Passeri	Seats (Total: 15)
	Meets May 31, 2022 - August 19, 2022	
	Tu 9:00am - 12:00pm	ONLINE
	Class time/details on ELMs	ONLINE

ARCH472 **Building Information Modeling Communication and Collaboration**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program; or must be in the Construction Project Management Minor. Credit only granted for: ARCH678I or ARCH472. Formerly: ARCH678I.

Building Information Modeling is explored as pertains to collaboration and communication in the design and construction of buildings and building systems. Practical and empirical learning using BIM software and case studies of real world projects and construction scenarios.

0101	Douglas Crawford	Seats (Total: 15)
	Meets May 31, 2022 - July 8, 2022	
	WF 10:00am - 1:15pm	ARC 1115
WB21	Kiley Wilfong Cullen	Seats (Total: 15)
	Meets July 11, 2022 - August 19, 2022	
	TuTh 5:00pm - 8:15pm	ONLINE

ARCH478F **Selected Topics in Architecture; Scandanavia Craft and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH478K **Selected Topics in Architecture; Scandinavia: Culture and Place**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH478P **Selected Topics in Architecture; Urban Redevelopment Studio**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH478R **Selected Topics in Architecture; Architectural Drawings II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH478V **Selected Topics in Architecture; Italy: Architecture, Urbanism and Landscape**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH483 **Field Archaeology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARCH225 and ARCH226; or ARCH425 and ARCH426; or permission of the ARCH-Architecture Program.

Participation in field archaeology with an excavation officially recognized by proper authorities of local government.

Contact department for information to register for this course.

ARCH608R **Advance Special Topics Design Studio**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Topical architectural design studio with concentration on advanced theoretical, conceptual, technological, cultural or professional issue.

Contact department for information to register for this course.

ARCH628G **Selected Topics in Architectural History; Greek and Roman Cities of Southern Turkey**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628M **Selected Topics in Architectural History; The Architecture of Ancient Greece**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628P **Selected Topics in Architectural History; Domestic Architecture in Pompeii**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628Q **Selected Topics in Architectural History; Italy: Archaeological Investigations in the Vesuvian Region**

Credits: 1 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628V **Selected Topics in Architectural History; In the Shadow of Vesuvius: Architectural Recording for Archaeology: Italy**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH628Y **Selected Topics in Architectural History; Archaeological Investigations in Roman Turkey**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH678F **Advanced Selected Topics in Architecture; Scandanavia: Craft and Culture**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

ARCH678K **Advanced Selected Topics in Architecture; Scandinavia: Culture and Place**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

ARCH678P **Advanced Selected Topics in Architecture; Urban Redevelopment Studio**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

ARCH678R **Advanced Selected Topics in Architecture; Drawing II: Architectural Representation**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

ARCH678V **Advanced Selected Topics in Architecture; Italy: Architecture, Urbanism and Landscape**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

Contact department for information to register for this course.

ARCH770 **Professional Practice of Architecture**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Restriction: Permission of ARCH-Architecture Program.

Project management, organizational, legal, economic and ethical aspects of architecture.

WB11	Andrew Pressman	Seats (Total: 15)	
	Meets May 31, 2022 - July 8, 2022		
	WF 10:00am - 11:30am	ONLINE	
	Class time/details on ELMs	ONLINE	Lab

AREC Agricultural and Resource Economics Summer 2022

AREC386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of AGNR-Agricultural & Resource Economics department. Restriction: Junior standing or higher.

0101	Robert Chambers	Seats (Total: 10)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0102	Lori Lynch	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0113	Erik Lichtenberg	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0115	Lars Olson	Seats (Total: 10)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

0119	Dale Johnson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0120	Anna Alberini **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0122	Roberton Williams **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0126	Kenneth Leonard **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0130	David Newburn **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0154	Jorge Holzer Bilbao **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0159	Neslihan Uler **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0160	Jing Cai **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0161	Joshua Linn **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0162	Erich Battistin **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

0163	James Archsmith **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0164	Louis Preonas **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0165	Cory Smith **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0166	Ramakrishna Sharan Mamidipudi **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0167	Becky Epanchin-Niell **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0168	Paul Goeringer **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0169	James MacDonald **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0201	Robert Chambers **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0202	Lori Lynch **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0213	Erik Lichtenberg **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

0215	Lars Olson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0219	Dale Johnson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0220	Anna Alberini **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0222	Roberton Williams **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0226	Kenneth Leonard **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0230	David Newburn **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0254	Jorge Holzer Bilbao **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0259	Neslihan Uler **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0260	Jing Cai **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0261	Joshua Linn **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

0262	Erich Battistin **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0263	James Archsmith **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0264	Louis Preonas **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0265	Cory Smith **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0266	Ramakrishna Sharan Mamidipudi **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0267	Becky Epanchin-Niell **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0268	Paul Goeringer **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0269	James MacDonald **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

AREC399 **Special Problems**

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Concentrated reading and study in some phase of a problem in agricultural and/or natural resource economics.

0101	Robert Chambers **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)

0102	Lori Lynch **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0113	Erik Lichtenberg **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0115	Lars Olson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0119	Dale Johnson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0120	Anna Alberini **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0122	Roberton Williams **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0126	Kenneth Leonard **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0130	David Newburn **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0154	Jorge Holzer Bilbao **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0159	Neslihan Uler **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)

0160	Jing Cai **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0161	Joshua Linn **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0162	Erich Battistin **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0163	James Archsmith **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0164	Louis Preonas **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0165	Cory Smith **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0166	Ramakrishna Sharan Mamidipudi **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0167	Becky Epanchin-Niell **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0168	Paul Goeringer **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0169	James MacDonald **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)

0201	Robert Chambers **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0202	Lori Lynch **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0213	Erik Lichtenberg **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0215	Lars Olson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0219	Dale Johnson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0220	Anna Alberini **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0222	Roberton Williams **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0226	Kenneth Leonard **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0230	David Newburn **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0254	Jorge Holzer Bilbao **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

0259	Neslihan Uler **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0260	Jing Cai **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0261	Joshua Linn **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0262	Erich Battistin **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0263	James Archsmith **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0264	Louis Preonas **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0265	Cory Smith **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0266	Ramakrishna Sharan Mamidipudi **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0267	Becky Epanchin-Niell **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0268	Paul Goeringer **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

0269	James MacDonald **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

AREC699 **Special Problems in Agricultural and Resource Economics**

Credits: 1-2 Grading Method: Regular, Audit

Intensive study and analysis of specific problems in the field of agricultural and resource economics, providing in-depth information in areas of special interest to the student.

0101	Robert Chambers **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0102	Lori Lynch **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0113	Erik Lichtenberg **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0115	Lars Olson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0120	Anna Alberini **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0122	Roberton Williams **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0126	Kenneth Leonard **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0130	David Newburn **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

0154	Jorge Holzer Bilbao **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0158	Stephen Salant **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0159	Neslihan Uler **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0160	Jing Cai **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0161	Joshua Linn **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0162	Erich Battistin **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0163	James Archsmith **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0164	Louis Preonas **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0165	Cory Smith **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0166	Ramakrishna Sharan Mamidipudi **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)

0167	Becky Epanchin-Niell **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0168	Paul Goeringer **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0169	James MacDonald **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0201	Robert Chambers **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0202	Lori Lynch **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0213	Erik Lichtenberg **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0215	Lars Olson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0220	Anna Alberini **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0222	Roberton Williams **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0226	Kenneth Leonard **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

0230	David Newburn **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0254	Jorge Holzer Bilbao **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0258	Stephen Salant **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0259	Neslihan Uler **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0260	Jing Cai **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0261	Joshua Linn **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0262	Erich Battistin **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0263	James Archsmith **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0264	Louis Preonas **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0265	Cory Smith **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

0266	Ramakrishna Sharan Mamidipudi **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0267	Becky Epanchin-Niell **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0268	Paul Goeringer **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0269	James MacDonald **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

AREC799 Master's Thesis Research

Credits: 1-6 Grading Method: Sat-Fail

0101	Robert Chambers **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0102	Lori Lynch **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0113	Erik Lichtenberg **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0115	Lars Olson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0120	Anna Alberini **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)

0122	Roberton Williams **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0126	Kenneth Leonard **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0130	David Newburn **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0154	Jorge Holzer Bilbao **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0159	Neslihan Uler **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0160	Jing Cai **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0161	Joshua Linn **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0162	Erich Battistin **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0163	James Archsmith **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0164	Louis Preonas **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)

0165	Cory Smith **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0166	Ramakrishna Sharan Mamidipudi **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0167	Becky Epanchin-Niell **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0168	Paul Goeringer **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0169	James MacDonald **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0201	Robert Chambers **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0202	Lori Lynch **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0213	Erik Lichtenberg **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0215	Lars Olson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0220	Anna Alberini **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

0222	Roberton Williams **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0226	Kenneth Leonard **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0230	David Newburn **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0254	Jorge Holzer Bilbao **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0259	Neslihan Uler **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0260	Jing Cai **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0261	Joshua Linn **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0262	Erich Battistin **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0263	James Archsmith **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0264	Louis Preonas **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

0265	Cory Smith **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0266	Ramakrishna Sharan Mamidipudi **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0267	Becky Epanchin-Niell **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0268	Paul Goeringer **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0269	James MacDonald **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

AREC898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Sat-Fail

0104	Robert Chambers **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 2)
0130	David Newburn **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0135	Erik Lichtenberg **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 1)
0137	Anna Alberini **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 2)

0138	Kenneth Leonard **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 2)
0140	Lori Lynch **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 2)
0143	Lars Olson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 2)
0145	Maureen Cropper **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 2)
0150	Roberton Williams **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0154	Jorge Holzer Bilbao **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0158	Stephen Salant **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0159	Neslihan Uler **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0160	Jing Cai **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0161	Joshua Linn **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)

0162	Erich Battistin **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0163	James Archsmith **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0164	Louis Preonas **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0165	Cory Smith **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0166	Ramakrishna Sharan Mamidipudi **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0167	Becky Epanchin-Niell **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0168	Paul Goeringer **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0169	James MacDonald **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0204	Robert Chambers **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0230	David Newburn **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

0235	Erik Lichtenberg **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0237	Anna Alberini **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 2)
0238	Kenneth Leonard **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 2)
0240	Lori Lynch **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 2)
0243	Lars Olson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 2)
0245	Maureen Cropper **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 2)
0250	Roberton Williams **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0254	Jorge Holzer Bilbao **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0258	Stephen Salant **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0259	Neslihan Uler **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

0260	Jing Cai **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0261	Joshua Linn **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0262	Erich Battistin **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0263	James Archsmith **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0264	Louis Preonas **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0265	Cory Smith **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0266	Ramakrishna Sharan Mamidipudi **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0267	Becky Epanchin-Niell **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0268	Paul Goeringer **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0269	James MacDonald **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

AREC899 Doctoral Dissertation Research

Credits: 1-8 Grading Method: Sat-Fail

0101	Robert Chambers **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0102	Lori Lynch **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0113	Erik Lichtenberg **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0115	Lars Olson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0120	Anna Alberini **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0122	Roberton Williams **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0126	Kenneth Leonard **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0130	David Newburn **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0139	Maureen Cropper **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0154	Jorge Holzer Bilbao **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

0158	Stephen Salant **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0159	Neslihan Uler **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0160	Jing Cai **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0161	Joshua Linn **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0162	Erich Battistin **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0163	James Archsmith **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0164	Louis Preonas **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0165	Cory Smith **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0166	Ramakrishna Sharan Mamidipudi **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0167	Becky Epanchin-Niell **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

0168	Paul Goeringer **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0169	James MacDonald **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0201	Robert Chambers **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0202	Lori Lynch **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0213	Erik Lichtenberg **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0215	Lars Olson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0220	Anna Alberini **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0222	Roberton Williams **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0226	Kenneth Leonard **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0230	David Newburn **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

0239	Maureen Cropper **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0254	Jorge Holzer Bilbao **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0258	Stephen Salant **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0259	Neslihan Uler **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0260	Jing Cai **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0261	Joshua Linn **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0262	Erich Battistin **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0263	James Archsmith **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0264	Louis Preonas **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0265	Cory Smith **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

0266	Ramakrishna Sharan Mamidipudi **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0267	Becky Epanchin-Niell **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0268	Paul Goeringer **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0269	James MacDonald **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

ARHU Arts and Humanities Summer 2022

ARHU230 **Introduction to Humanities, Health, and Medicine**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Restriction: Permission of ARHU-School of Languages, Literatures, and Cultures department. Cross-listed with: ENGL254, HIST219N, WGSS230. Credit only granted for: ARHU230 , ENGL289C, ENGL254, ARHU298A, HIST219N, or WGSS230.

An overview of the historical, cultural, ethical, and spiritual dimensions of medicine, human health, disease, and death from the points of view of various humanistic disciplines.

WB11	Michelle Moncrieffe **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE

ARHU269V **Special Topics in Study Abroad II; Vienna and Budapest Field Study**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARHU286 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Minimum cumulative GPA of 2.5; and must be in a major or minor in ARHU - College of Arts and Humanities; and must have earned a minimum of 12 credits; and must not have earned more than 60 credits.

Designed for students who have completed fewer than 60 credits, students who are in their first semester at the University of Maryland, and/or students who wish to complete legislative internships, research-based internships, some start-up internships and some remote internships. All students must be enrolled in an ARHU major or minor and the internship must be in one of the academic fields covered within the College of Arts and Humanities. In addition to completing their required hours on site, students with fewer than 60 credits and students who are in their first semester at the University of Maryland will be required to attend three bi-weekly seminars at the beginning of the semester to help develop their para-professional goals and understandings.

0101	Paula Nadler, Jeffrey Kodis **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I101	Paula Nadler, Jeffrey Kodis **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I102	Paula Nadler, Jeffrey Kodis **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I201	Paula Nadler, Jeffrey Kodis **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

ARHU298J **Special Problems in Arts and Humanities; Creative Writing Workshop**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Students will read great poems and stories from across cultures and engage in related writing exercises. Students will share their own original writing in a supportive workshop setting, discover new approaches to revision.

0401	Jacqueline Mueck, Andrienne Palchick **Meets July 11, 2022 - July 29, 2022** MTuWThF 9:30am - 12:30pm	Seats (Total: 3) ASY 3215

YS41	Jacqueline Mueck, Andrienne Palchick **Meets July 11, 2022 - July 29, 2022** MTuWThF 9:30am - 12:30pm *Restricted to students in Terp Young Scholars.*	Seats (Total: 16) ASY 3215

ARHU338 **Undergraduate Teaching Assistantship in a Living Learning Program**

(Perm req)

Credits: 3 Grading Method: Regular

Offers exceptional students the opportunity to work closely with a faculty member and gain valuable experience. ARHU Living learning program UTAs also serve as peer mentors and program leaders. They assist with course planning, research, and student advising (as appropriate). We are also allowing for variable credit (1-3 cr hrs).

0201	Jacqueline Mueck **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

ARHU386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Junior standing or higher.

0101	Paula Nadler **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0102	Susan Miller **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details. *This section is for students enrolled in the Arts Leadership Minor.*	Seats (Total: 10)
I101	Paula Nadler **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
I102	Paula Nadler **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

I103	Paula Nadler **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details. *This section is intended for students engaging in research-based internships.*	Seats (Total: 5)
I201	Paula Nadler **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

ARHU486 **Internship Practicum in Arts and Humanities**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Have completed previous internship at U of MD. Restriction: Must be in a major in ARHU-College of Arts & Humanities; and permission of ARHU-College of Arts & Humanities; and minimum cumulative GPA of 2.5; and must have earned a minimum of 60 credits; and completed 12 credits at U of MD.

An internship intended for students who have already completed an internship for credit. ARHU486 must be a different experience from the internship students have already taken for credit. Generally students intern with a different company, but they may continue working for the same company if the job is significantly different. See ARHU internship coordinator for details.

0101	Paula Nadler **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I101	Paula Nadler **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
I102	Paula Nadler **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I201	Paula Nadler **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

ARHU489 **Advanced Internship Practicum in ARHU**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Designed for students who have already completed at least 2 upper level internship courses for academic credit. It is an advanced practicum to assist students in continuing to develop and hone their professional writing, presentation and analytical skills.

0101	Paula Nadler **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I101	Paula Nadler **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I102	Paula Nadler **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I201	Paula Nadler **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

ARTH Art History & Archaeology Summer 2022

ARTH169A **Special Topics in Study Abroad I; Roman Archeology on-site**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTH169I **Special Topics in Study Abroad I; Art of Rome**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTH200 **Art and Society in Ancient and Medieval Europe and the Mediterranean**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU, DVUP

Examines the material culture and visual expressions of Mediterranean and European societies from early times until ca. 1300 CE, emphasizing the political, social, and religious context of the works studied, the relationships of the works to the societies that created them, and the interrelationship of these societies.

WB21	Tony Cui	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ARTH201 **Art and Society in the West from the Renaissance to the Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU, DVUP

Examines representative European and American works of art from the later Middle Ages to the present, highlighting the dynamic exchange between artistic and cultural traditions both within periods and across time.

WB21	Patricia Ortega-Miranda	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ARTH269P **Special Topics in Study Abroad II; From Medieval to Contemporary: Exploring the Great Art and Architecture of Prague**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTH269R **Special Topics in Study Abroad II; Art of Renaissance**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTH330 **Seventeenth-Century European Art**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Painting, sculpture and architecture concentrating on Italy, Spain, France, and England.

WB11	Tony Cui	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

ARTH351 **Picturing Contemporary Life: Art Since 1945**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Visual art since 1945, with an emphasis on North America and Europe.

WB21	Melanie Nguyen	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ARTH359F **Film as Art; The Coen Brothers Films: Genre and Irony**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of film as a visual art, from theoretical, cultural and aesthetic perspectives. Content varies by semester.

WB11	Greg Metcalf	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

ARTH359G **Film as Art; Del Toro, Miyazaki, Burton: Cinematic Masters of Fantasy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of film as a visual art, from theoretical, cultural and aesthetic perspectives. Content varies by semester.

WB21	Greg Metcalf	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ARTH369J **Special Topics in Study Abroad III; Survey of Italian Renaissance and Mannerist Art 1300-1580**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTH369T **Special Topics in Study Abroad III; Archaeology in Central Italy: The Etruscan and Roman Heritage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTH386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Prerequisite: Permission of ARHU-Art History & Archaeology department. Restriction: Junior standing or higher.

Supervised internship experience in diverse areas of art historical, archaeological, and museological work.

Contact department for information to register for this course.

ARTH498 **Directed Studies in Art History I**

(Perm req)

Credits: 2-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ARTH898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ARTT Art Studio Summer 2022

ARTT110 **Elements of Drawing I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Fundamental concepts, media, and processes of drawing. Emphasis on observation and representation in combination with individual expression. Subject matter includes still life, human figure, nature, the built environment, and conceptual projects.

Students must pay a $40.00 studio lab fee.

WB11	Matthew McLaughlin	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	MTuWTh 9:00am - 12:15pm	ONLINE

ARTT169P **Special Topics in Study Abroad I; Studio Art I: Drawing and Painting Italy**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTT210 **Elements of Drawing II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT110.

Continuation of ARTT110 with additional emphasis on color, figure drawing, and contemporary issues.

Students must pay a $40.00 studio lab fee.

WB11	Matthew McLaughlin	Seats (Total: 8)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWTh 9:00am - 12:15pm	ONLINE	Lab

ARTT255 **Introduction to Digital Art and Design Processes**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT100 and ARTT110. Credit only granted for: ARTT255 or ARTT354. Formerly: ARTT354.

Introduction to basic software and principles of digital imaging, and how they are applied to art and design. Topics covered: Digital image construction and manipulation, Vector-Based digital techniques layout, typography, etc), time-based digital techniques (video and audio composition and manipulation), and basic interactivity (web-design). Digital media used to explore visual principles established in ARTT100.

Students must pay a $40.00 studio lab fee.

WB21	Shannon Collis	Seats (Total: 12)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

Online introduction to basic software and principles of digital imaging and how they are applied to art and design. Topics covered: Digital image construction and manipulation, Vector-Based digital techniques layout, typography, etc), time-based digital techniques (video and audio composition and manipulation), and basic interactivity (web-design). Digital media used to explore visual principles established in ARTT100.

ARTT269I **Special Topics in Study Abroad II; Studio Art II: Drawing and Painting Italy**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTT353 **Elements of Photography**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Introduction to digital photographic image-making. With an emphasis on technical, aesthetic and conceptual understanding of the photographic medium, camera operation, and photographic composition. Students must have access to a Digital SLR or mirrorless camera capable of interchangeable lenses for this class.

Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ARTT369A **Special Topics in Study Abroad III; Focus: Introduction to Digital Photography as Fine Art**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTT369D **Special Topics in Study Abroad III; Design: London**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTT369L **Special Topics in Study Abroad III; Writing with Light**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTT369T **Special Topics in Study Abroad III; Travel Photography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTT386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-Art department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

ARTT409L **Study Abroad Special Topics IV; Design, Art and Culture: London**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ARTT460 **Seminar in Art Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Senior standing.

Exploration of relationship between content and processes of art in a contemporary multi-cultural context.

Contact department for information to register for this course.

ARTT498A **Directed Studies in Studio Art**

(Perm req) Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studio time arranged.

Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ASTR Astronomy Summer 2022

ASTR100 Introduction to Astronomy

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS

Credit only granted for: ASTR100, ASTR101, or ASTR120.

An elementary course in descriptive astronomy, especially appropriate for non-science students. Topics include the Sun, Moon, planets, stars, and nebulae, galaxies, and evolution of the Universe.

WB21	James Hunt	Seats (Total: 20)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWThF 9:30am - 10:50am	ONLINE	

ASTR101 General Astronomy

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: PL General Education: DSNL

Credit only granted for: ASTR100, ASTR101, or ASTR120.

Descriptive astronomy, appropriate for non-science majors. Sun, moon, planets, stars, nebulae, galaxies and evolution. Laboratory exercises include use of photographic material, computer simulations, and standard laboratory equipment.

Students must pay a $50.00 Laboratory Materials fee.

WB21	James Hunt	Seats (Total: 20)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWThF 9:30am - 10:50am	ONLINE	
	TuTh 11:00am - 1:00pm	ONLINE	Lab

ASTR498 Special Problems in Astronomy

(Perm req) Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

0129	Melissa Hayes-Gehrke	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0229	Melissa Hayes-Gehrke	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

ASTR699 **Special Problems in Advanced Astronomy**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ASTR898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ASTR899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

BCHM Biochemistry Summer 2022

BCHM461 **Biochemistry I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461 or BCHM463.

First semester of a comprehensive introduction to modern biochemistry. Structure, chemical properties, and function of proteins and enzymes, carbohydrates, lipids, and nucleic acids. Basic enzyme kinetics and catalytic mechanisms.

WB11	Christopher Capp	Seats (Total: 55)
	Meets May 31, 2022 - July 8, 2022	
	MTuWThF 9:30am - 10:50am	ONLINE

BCHM463 **Biochemistry of Physiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461, BCHM462 or BCHM463.

A one-semester introduction to general biochemistry. A study of protein structure, enzyme catalysis, metabolism, and metabolic regulation with respect to their relationship to physiology.

WB11	Christiana Guest	Seats (Total: 36)
	Meets May 31, 2022 - July 22, 2022	
	TuWTh 9:30am - 11:30am	ONLINE

BCHM699 **Special Problems in Biochemistry**

Credits: 1-6 Grading Method: Regular, Audit

Laboratory experience in a research environment. Restricted to students in the non-thesis M.S. option.

Contact department for information to register for this course.

BCHM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

BCHM898 **Pre-Candidacy Research**

Credits: 1 Grading Method: Regular

Contact department for information to register for this course.

BCHM899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

BIOE Bioengineering Summer 2022

BIOE221 **Academic and Career Planning**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: BIOE120 and BIOE121. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Provides practical tools to help Bioengineering majors think critically about their goals and career paths. Guides Bioengineering students through accessing useful resources both on- and off-campus.

WB21	Abby Shantzis	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

BIOE232 **Bioengineering Thermodynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261 and PHYS260. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE232, ENES232, ENME232, or ENME320.

A quantitative introduction to thermodynamic analysis of bioengineering systems. Bioengineering encompasses a wide range of applications from nanoscale interactions (e.g. reactions between molecules), to cellular interactions (e.g. membrane electrical currents), to overall balances on organisms, all the way to large scale manufacturing. Each of these applications (and many others not mentioned) involve energy interactions which is the domain of thermodynamics. The basic laws of thermodynamics will be introduced and explained through a series of examples related to bioengineering systems.

WB21	Jarred Callura	Seats (Total: 20)
	Meets July 11, 2022 - August 19, 2022	
	MTuTh 9:30am - 12:00pm	ONLINE

BIOE399 **Independent Study in Bioengineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study.

Contact department for information to register for this course.

BIOE399H **Independent Study in Bioengineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study.

Contact department for information to register for this course.

BIOE431 **Fundamentals of Biosensor Techniques, Instrumentation, and Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM135, PHYS260, PHYS261, BSCI330, BIOE120, BIOE121, BIOE241, and MATH246; or permission of ENGR-Fischell Department of Bioengineering department. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

A thorough review of fundamental concepts of biosensing systems, principles of common detection methods, and modern applications of biosensors. Primarily literature driven. Students will obtain a detailed understanding of cutting-edge biosensing techniques, the instrumentation used, and the application space. Students also will develop skills in using current literature as a source of knowledge.

WB21	Ian White	Seats (Total: 20)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

BIOE442 **Python: Introduction to Programming and Data Analysis**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BIOE241, BIOE120, BIOE121, and MATH241; or permission of ENGR-Fischell Department of Bioengineering department. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE489A or BIOE442. Formerly: BIOE489A.

Provides an introduction to structured programming, computational methods, and data analysis techniques with the goal of building a foundation allowing students to confidently address problems in research and industry. Fundamentals of programming, algorithms, and simulation are covered from a general computer science perspective, while the applied data analysis and visualization portion makes use of the Python SciPy stack.

0101	Bardia Yousefi	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	MW 4:00pm - 7:30pm	KEB 2111

BIOE631 **Biosensor Techniques, Instrumentation, and Applications**

(Perm req)

Credits: 3

Grading Method: Regular, Audit, Sat-Fail

Prerequisite: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE631, BIOE689Z, or CHPH718Z. Formerly: BIOE689Z.

A thorough review of fundamental concepts of biosensing systems, principles of common detection methods, and modern applications of biosensors. Primarily literature driven. Students will obtain a detailed understanding of cutting-edge biosensing techniques, the instrumentation used, and the application space. Students also will develop skills in using current literature as a source of knowledge.

WB21	Ian White	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

BIOE658L **Special Topics in Bioengineering (M.Eng.); Applications in Biopharmaceutical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Special topics in Bioengineering.

Reviews platforms and processes involved in biopharmaceutical develop- ment. Various current and projected technologies relating to the deve- lopment and production of biopharmaceuticals will be explored. Topics include Upstream/Downstream procedures and processing, cell types and platforms, bioreactors, recombinant protein and gene therapy develop- ment, and personalized medicine. Restriction: For Master of Engineering students only or with permission of department. Credit only granted for BIOE658L or ENCH648D.

BI01	Christopher Byrd	Seats (Total: 15)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

BIOE658W **Special Topics in Bioengineering (M.Eng.); Biosensor Techniques, Instrumentation, and Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Special topics in Bioengineering.

BI01	Ian White	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

BIOE689 **Special Topics in Bioengineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

Research Oriented Individual Instruction course.

Contact department for information to register for this course.

BIOE799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

BIOE898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

BIOE899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

BIOL Biology Summer 2022

BIOL609 **Special Problems in Biology**

Credits: 1-6 Grading Method: Regular

One seminar per week for each subject selected: A-Cell Biology; B-Developmental Biology; C-Estuarine and Marine Biology; D-Genetics; E-Parasitology; F-Physiology; G-Systematics and Evolutionary Biology; I-Behavior; J-General; K-Endocrinology; L-Ecology.

Contact department for information to register for this course.

BIOL799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

BIOL898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

BIOL899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0101	Instructor: TBA **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0201	Instructor: TBA **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

0212	Ricardo Araneda	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	
0223	Carlos Machado	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

BIOM Biometrics Summer 2022

BIOM301 **Introduction to Biometrics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: MATH113 or MATH115. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201.

Descriptive statistics, introduction to probability, sampling, confidence interval estimation, hypothesis testing, simple regression and correlation. Emphasis on simple applications of statistical techniques and interpretation of statistical results.

WB41	Christine Hakenkamp	Seats (Total: 60)	
	Meets July 11, 2022 - July 29, 2022		
	MTuWThF 11:00am - 1:00pm	ONLINE	
	MTuWThF 1:00pm - 2:00pm	ONLINE	Discussion

BISI Biological Sciences Summer 2022

BISI799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

BISI898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

0278	Nathan Swenson	Seats (Total: 3)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	
0290	Brian Pierce	Seats (Total: 3)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

0295	Philip Johnson	Seats (Total: 3)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

BISI899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0101	Instructor: TBA	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0111	Heidi Fisher	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0112	Carlos Machado	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0121	Zhongchi Liu	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0123	Kevin McIver	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0125	Jose Feijo	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0127	Stephen Mount	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0141	Eric Haag	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

0142	David Mosser **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0167	Wenxia Song **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0169	Anne Simon **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0188	Utpal Pal **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0189	Xiaoping Zhu **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0201	Instructor: TBA **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0202	Kan Cao **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0204	Patrick Kanold **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0208	Bill Lamp **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0211	Heidi Fisher **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

0212	Carlos Machado **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0213	Antony Jose **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0214	Sridhar Hannenhalli **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0218	Shunyuan Xiao **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0220	Mihai Pop **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0221	Zhongchi Liu **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0223	Kevin McIver **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0225	Jose Feijo **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0228	Thomas Kocher **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)
0232	Daniel Gruner **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

0240	Sougata Roy **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0241	Eric Haag **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0242	David Mosser **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0254	Jeffrey DeStefano **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0267	Wenxia Song **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0271	Jonathan Dinman **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0278	Nathan Swenson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0287	Gerald Wilkinson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 2)
0288	Utpal Pal **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0289	Xiaoping Zhu **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

0290	Brian Pierce **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 3)
0291	Wade Winkler **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I227	Stephen Mount **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)
I242	David Mosser **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)

BMGT Business and Management Summer 2022

BMGT099 **Internship Seminar**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Complements students' supervised work experiences. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.

CP25	John Malone **Meets August 1, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 200)

BMGT110 **Introduction to the Business Value Chain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE

Students are provided with an introduction to the business value chain with an emphasis on inter-organizational and intra-organizational coordination of core business processes. Emphasis is on cross-functional integration and the efficient and effective management of core processes with an emphasis on marketing, operations and supply chain management.

All course material is delivered online.

WB21	Hugh Turner	Seats (Total: 45)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

BMGT198C **Special Topics in Business and Management; Enterprise, Leadership and Markets**

Credits: 3 Grading Method: Regular

Introductory special topics in business and management.

YS41	Frank Goertner, Joseph Bailey, Jessica Roffe, Margaret Malewski, Jacqueline Manger, Rajshree Agarwal, Robert Sheehan, Judy Frels, Sarah Wolek	Seats (Total: 32)
	Meets July 11, 2022 - July 29, 2022	
	MTuWThF 10:00am - 11:30am	VMH 1415
	MTuWThF 1:00pm - 2:30pm	VMH 1415
	Restricted to students in Terp Young Scholars.	

BMGT220 **Principles of Accounting I**

Credits: 3 Grading Method: Regular

Basic theory and techniques of contemporary financial accounting. Includes the accounting cycle and the preparation of financial statements for single owner and partnership forms of business organizations operating as service companies or merchandisers.

WB11	Lu Yan	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

BMGT230 **Business Statistics**

Credits: 3 Grading Method: Regular General Education: FSAR

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH120 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201.

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and management.

WB11	Shubham Akshat **Meets May 31, 2022 - July 8, 2022** TuTh 2:00pm - 5:10pm	Seats (Total: 35) ONLINE
WB21	Jane Jiang **Meets July 11, 2022 - August 19, 2022** TuTh 2:00pm - 5:10pm	Seats (Total: 35) ONLINE

BMGT289I **Why Good Managers Make Bad Decisions**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS | General Education: DSSP, SCIS

This course provides an overview of the concepts, approaches, and vocabulary of evidence-based management (EBM) and provides an understanding of how experts in many disciplines can employ evidenced based decision making. EBM is an emerging movement in business to explicitly use the current best information in management decision making with special emphasis on relevant scientific findings and unbiased organizational facts. The course stresses how individuals practicing EBM learn how to rethink their approaches to data and knowledge in order to make more effective decisions.

WB41	Jeff Miller **Meets July 11, 2022 - July 29, 2022** Class time/details on ELMs	Seats (Total: 30) ONLINE

BMGT301 **Introduction to Information Systems**

Credits: 3 | Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Additional information: CMSC majors will not receive credit for this course towards their upper level concentration in their CMSC major. All BMGT majors, including students who are a double major in CMSC, must complete BMGT301 for their BMGT degree.

Comprehensive overview of information systems (IS), which explores the strategic and tactical nature of IS. The basic concepts in analyzing and designing information systems for business applications will be presented. Aspects of data management such as databases, data warehousing, data analysis, and data mining will be analyzed, and the basics of web page and web site design will be outlined. Students will also be introduced to modern information systems infrastructure such as telecommunications, networks, and information systems security. Knowledge of Excel or a similar spreadsheet tool.

Major restriction is not applicable for Summer 2022. Any interested student may register.

WB11	Zeinab Karake	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	TuTh 6:00pm - 9:10pm	ONLINE

BMGT340 Business Finance

Credits: 3 Grading Method: Regular

Prerequisite: BMGT220; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

Portions of this course will be offered online.

WB11	Michael Padhi	Seats (Total: 65)
	Meets May 31, 2022 - July 8, 2022	
	MW 9:30am - 1:40pm	ONLINE

BMGT350 Marketing Principles and Organization

Credits: 3 Grading Method: Regular

Recommended: ECON200.

An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

WB21	Roxanne Lefkoff	Seats (Total: 40)
	Meets July 11, 2022 - August 19, 2022	
	TuTh 6:00pm - 9:10pm	ONLINE

BMGT355 Foundations of Marketing for Non Business Majors

Credits: 3 Grading Method: Regular

Restriction: Must not have completed BMGT350; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT355 or BMGT350. Additional information: Course does not apply to a Smith School degree. BMGT350 may substitute for BMGT355.

Introduces the concepts and principles of marketing. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

WB11	Idil Yaveroglu	Seats (Total: 45)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

BMGT357 **Retailing and Marketing Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular

Prerequisite: BMGT350. Restriction: Permission of BMGT-Robert H. Smith School of Business; and must be in a major in BMGT-Robert H. Smith School of Business.

Supervised work experience with a firm engaged in marketing goods or services. Students apply concepts learned in marketing classes and analyze the firm's organizational structure, environment and marketing strategy.

Click here for more course information.

I201	Mary Harms	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

BMGT364 **Managing People and Organizations**

Credits: 3 Grading Method: Regular

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

WB11	Hyunsun Park	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	MW 1:00pm - 5:10pm	ONLINE

BMGT372 **Introduction to Logistics and Supply Chain Management**

Credits: 3 Grading Method: Regular

Supply chain management involves the coordination of suppliers, manufacturers, distributors, and retailers to ensure that products and services are available to the final consumer in a timely and cost-effective fashion. Logistics management is the subset of supply chain management dealing with the physical flows of product and includes such activities as transportation management, warehousing, materials handling, inventory management, and order fulfillment. Attention is paid to the logistics cost trade-offs within the firm and between members of the supply chain.

All course material is delivered online.

WB21	Hugh Turner	Seats (Total: 40)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	All course material is delivered online.	

BMGT373 **Supply Chain Management Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular

Prerequisite: BMGT370 or BMGT372. Restriction: Permission of BMGT-Robert H. Smith School of Business.

Involves supervised work experience in supply chain management, logistics and/or transportation. Students will be expected to relate course material to work experience in an analysis of a firm's operations.

Click here for more course information.

I201	Abhay Grover	Seats (Total: 20)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

BMGT380 **Business Law I**

Credits: 3 Grading Method: Regular

Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.

Course includes a weekly synchronous online meeting in addition to asynchronous activities. All course content will be delivered online.

WB21	William Martin	Seats (Total: 40)
	Meets July 11, 2022 - August 19, 2022	
	M 6:00pm - 9:10pm	ONLINE
	Class time/details on ELMs	ONLINE

WB22	William Martin **Meets July 11, 2022 - August 19, 2022** Tu 6:00pm - 9:10pm Class time/details on ELMs	Seats (Total: 40) ONLINE ONLINE
WB23	William Martin **Meets July 11, 2022 - August 19, 2022** W 6:00pm - 9:10pm Class time/details on ELMs	Seats (Total: 40) ONLINE ONLINE

BMGT386 **General Business Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular

Restriction: Permission of BMGT-Robert H. Smith School of Business; and must be in a major in BMGT-Robert H. Smith School of Business.

Supervised work experience in business. Students will be expected to relate course material to work experience in an analysis of a firm's operations.

Click here for more information.

I201	Martin Dresner, Hyosoo Park **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 27)
I202	Hao Su **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 27)

BMGT398 **Individual Study in Business and Management**

(Perm req)

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

BMGT461 **Entrepreneurship**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, BMGT461, ENES460, SMLP470 or HLMN470.

Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.

Contact department for information to register for this course.

BMGT463 **Cross-cultural Challenges in Business**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Examines in depth the nature of international cultural value-differences and their behavioral-related effects in the workplace. Topics include decision-making and leadership styles and reactions to various work assignments and reward structures.

Contact department for information to register for this course.

BMGT495 **Strategic Management**

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A case-based course where students learn to play the role of the "strategic manager" who defines the scope of its business operations and, within the chosen scope, how the firm will compete against rivals. This course focuses on how a firm can both formulate effective business-level and corporate-level strategies to achieve competitive advantage and earn above average profits.

WB11	Roy Thomason	Seats (Total: 42)
	Meets May 31, 2022 - July 8, 2022	
	MW 5:30pm - 9:40pm	ONLINE

BMGT828 **Independent Study in Business and Management**

(Perm req)

Credits: 1-9 Grading Method: Regular

By permission only of the Graduate Director.

Contact department for information to register for this course.

BMGT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

BMGT899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact Graduate Program Director to make arrangements.

Contact department for information to register for this course.

BMSO Online Business MS Programs Summer 2022

BMSO758P **Special Topics in Business; Data Processing and Analysis in Python**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

MS21	Peter Rankel, Alan Briggs **Meets May 23, 2022 - July 7, 2022** MTh 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 20) ONLINE ONLINE
MS22	Peter Rankel, Alan Briggs **Meets May 23, 2022 - July 7, 2022** MTh 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE

BMSO758Q **Special Topics in Business; Big Data and Artificial Intelligence for Business**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

MS21	Alan Briggs, Peter Rankel **Meets July 11, 2022 - August 25, 2022** MTh 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 22) ONLINE ONLINE
MS22	Peter Rankel, Alan Briggs **Meets July 11, 2022 - August 25, 2022** MTh 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 22) ONLINE ONLINE

BSCI Biological Sciences Program Summer 2022

BSCI135 **Amazing Green: Plants that Transformed the World**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL, SCIS

An interactive way to learn about plants and science, focusing on how plants have changed human history, the biology of their growth, and the science behind their use.

0101	Edgar Moctezuma	Seats (Total: 24)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 11:00am - 12:20pm	HJP 3237	
	TuTh 1:00pm - 3:00pm	HJP 3237	Lab

BSCI160 **Principles of Ecology and Evolution**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with BSCI161), DSNS

Prerequisite: Must have math eligibility of MATH120 or higher. Recommended: For Science majors. Credit only granted for: BSCI106 or BSCI160. Formerly: BSCI106.

Basic principles of biology with special emphasis on ecological and evolutionary biology.

(Sponsoring Dept.: BSCI)

WB21	Marcia Shofner	Seats (Total: 50)	
	Meets July 11, 2022 - August 19, 2022		
	Class time/details on ELMs	ONLINE	

BSCI170 **Principles of Molecular & Cellular Biology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with BSCI171), DSNS

Prerequisite: Must have math eligibility of MATH120 or higher. Recommended: For Science majors. Credit only granted for: BSCI105 or BSCI170. Formerly: BSCI105.

Basic principles of biology with special emphasis on cellular and molecular biology.

WB11	Michael Keller	Seats (Total: 75)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	

BSCI171 **Principles of Molecular & Cellular Biology Laboratory**

Credits: 1 | Grading Method: Regular, Pass-Fail

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI170. Recommended: For Science majors.

Basic laboratory principles of biology with special emphasis on cellular and molecular biology.

0101	Swarna Mohan **Meets May 31, 2022 - July 8, 2022** TuTh 11:00am - 1:50pm	Seats (Total: 24) HJP 1229	 Lab
0102	Swarna Mohan **Meets May 31, 2022 - July 8, 2022** TuTh 2:00pm - 4:50pm	Seats (Total: 24) HJP 1229	 Lab

BSCI201 **Human Anatomy and Physiology I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

Prerequisite: BSCI170 and BSCI171; or BSCI105; or students who have taken courses with comparable content may contact the department.

Anatomy and physiology of the skeletal, muscular, neural, endocrine, and sensory systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

Students must pay a $40.00 Laboratory Materials fee. (Sponsoring Department: BIOL.)

WB11	Sara Lombardi, Caitlin Fox **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs F 12:00pm - 1:00pm TuWTh 9:00am - 11:50am	Seats (Total: 30) ONLINE ONLINE ONLINE	 Lab
WB12	Sara Lombardi, Caitlin Fox **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs F 12:00pm - 1:00pm TuWTh 1:00pm - 3:50pm	Seats (Total: 30) ONLINE ONLINE ONLINE	 Lab
WB13	Sara Lombardi, Caitlin Fox **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs F 12:00pm - 1:00pm TuWTh 9:00am - 11:50am	Seats (Total: 30) ONLINE ONLINE ONLINE	 Lab

BSCI202 **Human Anatomy and Physiology II**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI201; or permission of CMNS-Biology department.

Anatomy and physiology of the cardiovascular, respiratory, immune, digestive, urinary and reproductive systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

Students must pay a $40.00 Laboratory Materials fee. Sponsoring Department: BIOL.

WB21	Tammatha O'Brien, Caitlin Fox **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs TuWTh 9:00am - 11:50am	Seats (Total: 30) ONLINE ONLINE	 Lab
WB22	Tammatha O'Brien, Caitlin Fox **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs TuWTh 1:00pm - 3:50pm	Seats (Total: 30) ONLINE ONLINE	 Lab
WB23	Tammatha O'Brien, Caitlin Fox **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs TuWTh 9:00am - 11:50am	Seats (Total: 30) ONLINE ONLINE	 Lab
WB24	Tammatha O'Brien, Caitlin Fox **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs TuWTh 1:00pm - 3:50pm	Seats (Total: 30) ONLINE ONLINE	 Lab

BSCI207 **Principles of Biology III - Organismal Biology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106. And BSCI170 and BSCI171; or BSCI105. And must have completed or be concurrently enrolled in CHEM131.

The diversity, structure and function of organisms as understood from the perspective of their common physicochemical principles and unique evolutionary histories.

WB11	Nicholas Fletcher	Seats (Total: 40)	
	Meets May 31, 2022 - July 8, 2022		
	W 10:00am - 12:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	

BSCI222 **Principles of Genetics**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131 and CHEM132; and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or must have completed BSCI105 or (BSCI170 and BSCI171); and two semesters of chemistry.

Principles and mechanisms of heredity and gene expression. Considers plant, animal, and microbial organisms.

WB11	Kimberly Paczolt	Seats (Total: 24)	
	Meets May 31, 2022 - July 8, 2022		
	MWF 9:00am - 10:50am	ONLINE	
	TuTh 9:00am - 10:50am	ONLINE	Discussion
WB12	Kimberly Paczolt	Seats (Total: 24)	
	Meets May 31, 2022 - July 8, 2022		
	MWF 9:00am - 10:50am	ONLINE	
	WF 11:00am - 12:50pm	ONLINE	Discussion

BSCI223 **General Microbiology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL, SCIS

Prerequisite: BSCI170 and BSCI171; or BSCI105. Credit only granted for: BSCI223 or BSCI283.

Fundamental concepts in morphology, physiology, genetics, immunology, ecology, and pathogenic microbiology. Applications of microbiology to medicine, the food industry and biotechnology.

Students must pay a $40.00 laboratory materials fee.

0101	Erin Tran	Seats (Total: 16)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 10:30am - 11:30am	PLS 1130	
	MTuWThF 12:00pm - 2:00pm	MCB 1201	Lab

0102	Erin Tran	Seats (Total: 16)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 10:30am - 11:30am MTuWThF 12:00pm - 2:00pm	PLS 1130 MCB 1205	Lab
0103	Erin Tran	Seats (Total: 16)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 10:30am - 11:30am MTuWThF 12:00pm - 2:00pm	PLS 1130 MCB 1206	Lab

BSCI279 **Supplemental Study; Supplemental Study in Biology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Department: BIOL.)

Contact department for information to register for this course.

BSCI279M **Supplemental Study; Modern Medicine**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

YW41	Genevieve Houston-Ludlam	Seats (Total: 18)	
	Meets July 11, 2022 - July 29, 2022		
	MTuWThF 10:00am - 1:00pm	ONLINE	
	Restricted to students in Terp Young Scholars.		

BSCI289 **Off-Campus Internship**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Elective credit for formally established off-campus research internship. Permission of Director of Outreach required.

I101	Katerina Thompson	Seats (Total: 10)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

I201	Katerina Thompson	Seats (Total: 10)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

BSCI330 **Cell Biology and Physiology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. And minimum grade of C- in BSCI170 and BSCI171; or minimum grade of C- in BSCI105. Restriction: Must not have completed BSCI230. Credit only granted for: BSCI230 or BSCI330. Formerly: BSCI230.

Biochemical and physiological mechanisms underlying cellular function. Properties of cells which make life possible and mechanisms by which cells provide energy, reproduce, and regulate and integrate with each other and their environment.

(Sponsoring Dept: BIOL). Specialization Areas: CEBG, ECEV, GENB, MICB, and PHNB. Students must pay a $40.00 laboratory materials fee.

WB11	Carmen Cantemir-Stone	Seats (Total: 36)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	
	TuW 1:00pm - 3:50pm	ONLINE	Lab
WB12	Carmen Cantemir-Stone	Seats (Total: 30)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	
	TuW 1:00pm - 3:50pm	ONLINE	Lab

BSCI338I **Special Topics in Biology; Medical Biotechnology & Drug Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338M **Special Topics in Biology; Human Health and Disease: A Clinical Approach**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338Z **Special Topics in Biology; Field Research**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

(Sponsoring Department: BIOL.)

0101	Instructor: TBA **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0201	Instructor: TBA **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
I1Z1	Hadiya Woodham **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
I2Z1	Hadiya Woodham **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

BSCI339N **Selected Topics in Biology; Natural History, Ecology and Geology of Australia**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Contact department for information to register for this course.

BSCI343 **Cellular Mechanisms of Aging and Disease**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI330. Credit only granted for: BSCI339I or BSCI343. Formerly: BSCI339I.

Explore how alterations in normal cellular and molecular processes lead to both aging and a variety of non-infectious human diseases currently plaguing our society. Students will read, analyze, and discuss current primary and secondary literature in the field of cell biology and biomedicine.

WB41	Hadiya Woodham	Seats (Total: 28)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

BSCI348J **Special Topics in Cell Biology and Molecular Genetics; Medical Microbiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI348 may be applied to the BSCI major.

Prerequisite: BSCI105 (grade of B or better) or BSCI223 or BSCI283. Credit only granted for BSCI424 or BSCI348J. Mechanisms of pathogenesis, detection, prevention and treatment of bacterial, viral and parasitic pathogens of humans.

WB11	Volker Briken	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

BSCI348M **Special Topics in Cell Biology and Molecular Genetics; Epidemiology of Microbial Pathogens**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI348 may be applied to the BSCI major.

Acceptable towards Biological Sciences areas: MICB and GENB. Prerequisite: BSCI105. Study of infectious bacteria and viruses acting at the population level in humans and animals. Identification of causes and spread of infection.

WB31	Jeffrey Olimpo	Seats (Total: 31)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

BSCI348R **Special Topics in Cell Biology and Molecular Genetics; Microbiology Internship**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI348 may be applied to the BSCI major.

Microbiology Internship. Opportunity for students to perform research, relating to microbiology in an off-campus laboratory. Permission of Instructor required. 3 credits applicable to MICB specialization area. Click here for more course information: https://go.umd.edu/SqU.

I101	David Straney **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
I201	David Straney **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

BSCI353 **Principles of Neuroscience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (BSCI207, BSCI330). Corequisite: PHYS122, PHYS142, or PHYS132.

Principles of nervous system function, ranging from molecular and cellular basis of neuron function through nervous system integration.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: CEBG (Cell Biology); GENB (Cell Biology, Development, Physiology); and PHNB.

WB11	Chan Lin **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs W 11:00am - 12:15pm	Seats (Total: 20) ONLINE ONLINE

BSCI356 **The Future of the Brain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: NEUR200, BSCI353 or NEUR306.

Overview of the current state of brain research, with a focus on the ideas behind and advances made through large-scale projects, such as the BRAIN Initiative, the Human Brain Project, the Human Connectome Project, etc., in whole-brain imaging and mapping, high-density multisite electrode recording, virtual reality, and optogenetics. Students will build on their knowledge of neuroscience and innovative neurotechnologies, engage in the discussion of challenges neuroscientists are tackling, and identify proposed solutions for reaching a practical and comprehensive understanding of the brain.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: GENB and PHNB.

WB21	Chan Lin	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	W 11:00am - 12:15pm	ONLINE

BSCI361 **Principles of Ecology**

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: BSCI160 and BSCI161; or BSCI106. And (MATH130, MATH136, or MATH140).

Basic principles of population, community, and ecosystem ecology. Use of these principles to predict possible consequences of human-caused changes in the environment and to understand the level of uncertainty of those predictions.

WB21	Marcia Shofner	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

BSCI379G **Cell Biology and Molecular Genetics Department Research; Research in Cell Biology and Molecular Genetics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a faculty member of the department.

Contact department for information to register for this course.

BSCI379M **Cell Biology and Molecular Genetics Department Research; Research in Microbiology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a faculty member of the department.

Research carried out under guidance of faculty advisor. Student must make arrangements with a CBMG Departmental faculty member to do this research and register for this course. Permission Required.

Contact department for information to register for this course.

BSCI379P **Cell Biology and Molecular Genetics Department Research; Research in Plant Biology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a faculty member of the department.

Research carried out under guidance of faculty advisor. Student must make arrangements with a CBMG Departmental faculty member to do this research and register for this course. Permission Required.

Contact department for information to register for this course.

BSCI389 **Entomology Department Research**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Credit to be determined by the department. A maximum of 8 credits of any version of BSCI389 can be applied to one or more undergraduate degrees. Any research credits completed beyond the first 8 will be included in the total earned credits and factored into the GPA but not applied to any undergraduate degree.

Contact department for information to register for this course.

BSCI399 **Biology Department Research; Biology Department Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.

(Sponsoring Department: BIOL.)

Contact department for information to register for this course.

BSCI399H **Biology Department Honors Research**

(Perm req)

Credits: 1-2 Grading Method: Regular

A laboratory research problem; required each semester during honors participation and culminating in an honors thesis.

(Sponsoring Department: BIOL.)

Contact department for information to register for this course.

BSCI399L **Biology Department Research; Biology Lab Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.

Any combination of 3 credits of BSCI399, BSCI399L, and BSCI399H can be used to satisfy the enrichment requirement in CEBG, ECEV, MICB, or PHNB or an upper-level elective in GENB. Students must have successfully completed at least one semester in a Biology department research lab before getting permission to take BSCI399L in the same lab. Students completing at least 4 credits of laboratory research including at least one semester taking BSCI399L may substitute this experience for one of the two upper-level laboratory courses required to complete any BSCI major.

Contact department for information to register for this course.

BSCI422 **Principles of Immunology**

Credits: 3 Grading Method: Regular

Prerequisite: BSCI222. Recommended: BSCI330; and (BSCI223 or BSCI283). Restriction: Junior standing or higher.

The immune system in health and disease. Presentation and analysis of the cellular and molecular processes that comprise the immune system.

0101	Kenneth Frauwirth	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	MTuWThF 11:00am - 12:40pm	PLS 1146

BSCI433 **Biology of Cancer**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222 and BSCI330; or permission of CMNS-Biological Sciences UG Program.

Causes and consequences of neoplastic transformations at the biochemical and cellular levels.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences specialization areas: CEBG, GENB, and PHNB.

WB51	Beth Parent	Seats (Total: 30)
	Meets June 21, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

BSCI437 **General Virology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222; or permission of CMNS-Biological Sciences UG Program. Restriction: Junior standing or higher.

Discussion of the physical and chemical nature of viruses, virus cultivation and assay methods, virus replication, viral diseases with emphasis on the oncogenic viruses, viral genetics, and characteristics of the major virus groups.

WB11	Jeffrey DeStefano	Seats (Total: 18)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	

BSCI440 **Mammalian Physiology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330; and (CHEM231 and CHEM232; or must have completed CHEM233). Or permission of CMNS-Biological Sciences UG Program.

A study of the cardiovascular, hemopoietic, gastrointestinal, renal and respiratory systems. Chemical and endocrine regulation of physiological functions in mammals. Course does not count as an upper level lab for BIOL majors (see BSCI441).

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences specialization areas: GENB and PHNB.

WB21	David Sandstrom	Seats (Total: 50)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWTh 10:00am - 11:45am	ONLINE	
	MTuWTh 12:00pm - 1:45pm	ONLINE	Discussion

BSCI447 **General Endocrinology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330, CHEM241, and CHEM242.

Functions and dysfunctions of the endocrine system with special reference to mammals.

WB21	Tammatha O'Brien	Seats (Total: 22)	
	Meets July 11, 2022 - August 19, 2022		
	Class time/details on ELMs	ONLINE	

BSGC Global Communities Summer 2022

BSGC398A **BSGC Experiential Learning in Global Communities: Global Service**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Experiential learning is an integral element of the Global Communities program. Students will gain an understanding of social issues in marginalized communities, engage in service-learning, and develop an action plan for civic engagement in a diverse global society.

WB11	Natalie Vinski Ibrahim	Seats (Total: 25)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

BSGC399 **Topical Investigations in Global Communities**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Variable from 1-3 credits and repeatable up to 6 if content varies.

Must be enrolled in Global Communities Living-Learning Program.

WB11	Sarah Croco	Seats (Total: 5)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

BSOS Behavioral and Social Sciences Summer 2022

BSOS288I **Special Topics in Behavioral and Social Sciences; Social Science Internship Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular

Introductory special topics course focusing on an interdisciplinary topic related to behavioral and social sciences.

I101	Kathryn Hopps	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
I201	Kathryn Hopps	Seats (Total: 10)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

BSOS355 **Social Sciences Internship Practicum**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must have earned a minimum of 60 credits; and minimum cumulative GPA of 2.5; and must have completed at least 1 semester at UMD. Credit only granted for: BSOS388I or BSOS355. Formerly: BSOS388I.

BSOS 355 is an internship course open to all majors. It will enable students to articulate and apply the scholarship from the discipline related to their specific internship placement into a real-work environment.

I101	Kathryn Hopps **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I201	Kathryn Hopps **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

BSOS386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular

Contact department for information to register for this course.

BSOS388E **Behavioral and Social Sciences Special Topics; CIDCM Minor Practicum**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

0101	Elizabeth Irlbacher **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 3)
0201	Elizabeth Irlbacher **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 3)

BSOS388Q **Behavioral and Social Sciences Special Topics; Cesar Directed Study**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSST Terrorism Studies Summer 2022

BSST338J **Special Topics in Terrorism Studies; Analyzing Terrorism: Simulations, Wargaming, and Strategies of Security**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

This interactive course introduces students to novel, applied methods to study terrorism and security, including simulations, wargaming exercises, red teaming, and horizon scanning. This course assumes no prior experience with these methods. Throughout the course, students will work in groups to complete interactive strategy-based activities to understand the behavior of terrorist and criminal groups and develop security strategies to counter violent non-state actors.

WB11	Thomas Guarrieri	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	Th 6:00pm - 8:45pm	ONLINE

BSST338L **Special Topics in Terrorism Studies; Violent Non-State Actors in Latin America: Terrorism, Cartels, and Crime**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

This course examines why non-state actors (terrorist groups, paramilitary groups, drug cartels, organized crime groups, gangs, and private security companies) resort to violence and crime, what tactics and strategies they use, how they fund their existence, how they undermine the state, and what can be done to counter the instability they cause. By the end of the course, students will have an in-depth understanding of the problems that plague individual countries throughout Latin America, as well as issues that afflict the region as a whole.

WB21	Bryan Arva	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

BSST338W **Special Topics in Terrorism Studies; Geographies of Terrorism: Violence, Terror, and Space**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contemporary geographers study place and space and all the complex and dynamic relationships within, including terrorism. Increasingly, the study of terrorism requires a multiplicity of conceptual approaches and methods of inquiry to advance effective preventive and counter violent extremism practices. This course provides an introduction to the scope and methods geographers employ to address a fundamental question in the geography of terrorism: the "why of where?" Cross-listed with GEOG398W.

WB21	Samuel Henkin	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

BSST370 **Financing Terror and Hate**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: FSAR

Credit only granted for: BSST370 or BSST338Z. Formerly: BSST338Z.

This course will discuss terrorist financial activities, initiatives focused on countering those financial activities, and sanctions policy. This course approaches these topics through various techniques including, structured analytic tools, such as weighted ranking methods, scenario trees, causal flow diagramming, hypothesis testing, utility analysis, as well as game theory and logic will be incorporated into the course to provide students a better framework to form analytic judgments. At the end of the course, students will have gained a solid foundational understanding of the financing and counter-financing of terrorists.

WB11	Jason Blazakis	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

BSST386 **Experiential Learning in Terrorism Studies**

(Perm req)

Credits: 1-5 Grading Method: Regular, Pass-Fail

This course will supplement student's experiential learning experience, or internship in the field of terrorism studies and homeland security with guided reflection on their experiences.

I101	Eva Coll	Seats (Total: 30)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

BUDT Decision and Information Technologies Summer 2022

BUDT759 **Independent Study in Decision and Information Technologies**

Credits: 1-6 Grading Method: Regular

Independent study for masters students in decision and information technologies.

CP15	Suresh Acharya	Seats (Total: 5)
	Meets May 23, 2022 - August 25, 2022	
	Contact instructor or department for details.	

BUSI Part-Time MBA Program Summer 2022

BUSI641 **Corporate Finance II**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

Builds on the concepts and analytic methods covered in Corporate Finance I. Students will learn about the structure of financial markets, the financing and payout choices of large and small corporations, and the role of risk management in the corporation. In particular, the following issues will be addressed: The drivers of shareholder value; Corporate financing alternatives and the design of a company's capital structure; Coordinating investment, financing and payout policies; Corporate Finance Issues for Start-up firms; Key issues in international corporate finance.

BA11	Geoffrey Tate	Seats (Total: 45)
	Meets May 23, 2022 - July 7, 2022	
	M 6:25pm - 10:00pm	BA 104
	Contact instructor or department for details.	

DC12	Geoffrey Tate **Meets May 23, 2022 - July 7, 2022** Th 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 47) DC C3
GS11	Geoffrey Tate **Meets May 23, 2022 - July 7, 2022** Tu 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 45) BLD4 3308

BUSI700 **Financial Statement Analysis**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. This involves understanding and using the information that financial statements are communicating to users.

BA21	Nick Seybert **Meets July 11, 2022 - August 25, 2022** Tu 6:25pm - 10:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE

BUSI714 **Innovation Management**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

Designed to give students a broad view on issues related to the management of innovations. Covers both external dynamics of innovations and internal management activities, with special emphasis on knowledge development and learning processes within organizations.

DC21	Clarence Wesley **Meets July 11, 2022 - August 25, 2022** M 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 45) DC C3

BUSI721 **Creativity for Business Leaders and Entrepreneurs**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

Examines the concept of creativity as it applies in today's and tomorrow's complex business environment. An overview of the cognitive foundations of creativity, examines many of the preconceived notions about creativity in business and discusses multiple ways in which creativity can help business leaders and entrepreneurs to succeed. Topics include creativity techniques for groups and individuals, creativity as a foundation to recognize business opportunities and develop innovative products and services, selecting ideas and making them stick, mental and organizational obstacles to creativity as well as an overview of electronic tools to increase creative capability.

BA21	Oliver Schlake **Meets July 11, 2022 - August 25, 2022** M 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 45) BA 103
GS21	Oliver Schlake **Meets July 11, 2022 - August 25, 2022** Th 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 45) BLD4 4308

BUSI730 **Marketing Research Methods**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650 and BUSI630. Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

The process of acquiring, classifying and interpreting primary and secondary marketing data needed for intelligent, profitable marketing decisions. Evaluation of the appropriateness of alternative methodologies, such as the inductive, deductive, survey, observational, and experimental. Recent developments in the systematic recording and use of internal and external data needed for marketing decisions.

DC21	David Ashley **Meets July 11, 2022 - August 25, 2022** Th 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 45) ONLINE
GS11	David Ashley **Meets May 23, 2022 - July 7, 2022** W 6:25pm - 10:00pm	Seats (Total: 45) ONLINE

BUSI732 **Consumer Behavior**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

Analysis of customer decision-making and how marketing strategy can be used to influence those decisions. The framework is a buyer behavior model, in which concepts from psychology, sociology, and economics are applied to individual and organizational purchase decisions. Marketing strategies of leading firms in consumer products, technology, and services (including internet services) are analyzed using a variety of case study formats. Focus is consumer behavior; however, principles can also be applied to the decision-making of business.

GS21	Rosellina Ferraro **Meets July 11, 2022 - August 25, 2022** W 6:25pm - 10:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE
GS22	Rosellina Ferraro **Meets July 11, 2022 - August 25, 2022** M 6:25pm - 10:00pm *Restricted to students with Special Codes: MBDC, MBSG, MBBA, or MBWK.*	Seats (Total: 50) ONLINE

BUSI742 Entrepreneurial Finance and Private Equity

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

Advanced course in Corporate Finance. The major emphasis is how financiers help growing firms - and in particular young start-ups - using different types of securities at different points in the industry's and firm's life. Financing arrangements and securities studied will include private equity funds and private financings placements, Venture Capital (VC) and preferred equity, Investment Banks through Initial Public Offerings (IPOs), Private equity finds, debt and leveraged buyouts. Students will learn additional techniques that will help them understand how financiers value firms and how to understand, plan and value different financing strategies.

GS11	Pablo Slutzky **Meets May 23, 2022 - July 7, 2022** M 6:25pm - 10:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE
GS12	Pablo Slutzky **Meets May 23, 2022 - July 7, 2022** W 6:25pm - 10:00pm	Seats (Total: 50) ONLINE

BUSI746 **International Investment**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

Addresses international stock markets, portfolio theory, international interest rates, exchange rates and exchange rate derivatives (options, forwards, and futures), exchange rate swaps and exchange rate exposure (operating, translation, and transaction), foreign investment strategy.

DC21	Steven Heston	Seats (Total: 50)
	Meets July 11, 2022 - August 25, 2022	
	M 6:25pm - 10:00pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSI752 **Data Mining and Predictive Analytics**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI630. Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

Data mining techniques and their use in business decision making. A hands-on course that provides an understanding of the key methods of data visualization, exploration, classification, prediction, time series forecasting, and clustering.

BA21	Gah-Yi Ban	Seats (Total: 50)
	Meets July 11, 2022 - August 25, 2022	
	Th 6:25pm - 10:00pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSI758D **Special Topics in Business; Business Decoded**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

BA16	Paulo Prochno	Seats (Total: 50)
	Meets May 23, 2022 - July 7, 2022	
	Contact instructor or department for details.	
BA26	Paulo Prochno	Seats (Total: 50)
	Meets July 11, 2022 - August 25, 2022	
	Contact instructor or department for details.	

DC16	Paulo Prochno **Meets May 23, 2022 - July 7, 2022** Contact instructor or department for details.	Seats (Total: 50)
DC26	Paulo Prochno **Meets July 11, 2022 - August 25, 2022** Contact instructor or department for details.	Seats (Total: 50)
GS16	Paulo Prochno **Meets May 23, 2022 - July 7, 2022** Contact instructor or department for details.	Seats (Total: 50)
GS26	Paulo Prochno **Meets July 11, 2022 - August 25, 2022** Contact instructor or department for details.	Seats (Total: 50)

BUSI758E **Special Topics in Business; Business Decoded**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

BA16	Paulo Prochno **Meets May 23, 2022 - July 7, 2022** Contact instructor or department for details.	Seats (Total: 50)
BA26	Paulo Prochno **Meets July 11, 2022 - August 25, 2022** Contact instructor or department for details.	Seats (Total: 50)
DC16	Paulo Prochno **Meets May 23, 2022 - July 7, 2022** Contact instructor or department for details.	Seats (Total: 50)
DC26	Paulo Prochno **Meets July 11, 2022 - August 25, 2022** Contact instructor or department for details.	Seats (Total: 50)
GS16	Paulo Prochno **Meets May 23, 2022 - July 7, 2022** Contact instructor or department for details.	Seats (Total: 50)

GS26	Paulo Prochno **Meets July 11, 2022 - August 25, 2022** Contact instructor or department for details.	Seats (Total: 50)

BUSI758R **Special Topics in Business; Ethical Leadership**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

BA11	Nicole Coomber **Meets May 23, 2022 - July 7, 2022** W 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 50) BA 104
DC11	Jennifer Marr **Meets May 23, 2022 - July 7, 2022** M 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 45) DC C3
DC12	Jennifer Marr **Meets May 23, 2022 - July 7, 2022** Tu 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 45) DC C3
GS11	Jennifer Marr **Meets May 23, 2022 - July 7, 2022** Th 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 50) BLD4 4335

BUSI759 **Independent Study in Business**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Independent study for Masters students in Business.

Contact department for information to register for this course.

BUSI764 **Business Law for Managers**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI764 or BUAC721.

Survey of United States legal institutions and processes as well as substantive areas of the law that affect business. Examination of tort and contract law, the legal forms of business organization and legal liability and major regulatory laws that affect business.

DC21	Jennifer Gershberg	Seats (Total: 50)
	Meets July 11, 2022 - August 25, 2022	
	W 6:25pm - 10:00pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSI787 **Integrative Capstone**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.

Provide students with an integrative experience to utilize the functional tools amassed in the MBA program and acquire new knowledge in the areas of international business, business ethics and executive/leadership presence, provide students with the opportunity to work with multiple functional areas at a time to drive business growth and utilize cases to address domestic and international challenges, enabling you to sharpen your skills in utilizing several methods for adding economic value when expanding globally. Additionally, students will raise awareness of best practices in building executive/leadership presence, as functional knowledge and business expertise is not enough to ensure successful career progression.

Meeting dates: June 4 and 5.

DC11	Judy Frels	Seats (Total: 72)
	Meets June 4, 2022 - June 5, 2022	
	SaSu 8:30am - 5:30pm	Location: TBA
	Contact instructor or department for details.	

BUSO Online MBA Program Summer 2022

BUSO604 **Managerial Economics and Public Policy**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: EMBA681 or BUSO604.

Basic microeconomic principles used by firms, including supply and demand, elasticities, costs, productivity, pricing, market structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.

SO12	Aaron Finkle	Seats (Total: 30)
	Meets July 11, 2022 - August 25, 2022	
	M 8:45pm - 10:15pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSO612 **Marketing Management**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: EMBA757 or BUSO612.

Analysis of marketing problems and evaluation of specific marketing efforts regarding the organization's products and services, pricing activities, channel selection, and promotion strategies in both domestic and international markets.

SO11	Mary Beth Furst	Seats (Total: 25)
	Meets May 23, 2022 - July 7, 2022	
	Tu 8:45pm - 10:15pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSO700 **Fundamentals of Business**

Credits: 2 Grading Method: Sat-Fail

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.

This course introduces students to the language of business. Topics covered include financial accounting, financial management, data models, strategy, leadership and teamwork, and a brief action learning project on innovation. Pre-work includes the DISC assessment, and a requires a passing grade on a spreadsheet pre-work course.

SO91	Mary Beth Furst	Seats (Total: 100)
	Meets May 20, 2022 - May 22, 2022	
	FSaSu 8:00am - 8:00pm	Location: TBA

BUSO701 **Integrative Business Capstone**

Credits: 2 Grading Method: Sat-Fail

Prerequisite: Students must have completed a minimum of 48 credit hours. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.

This is an experiential course that involves an integrative business experience. This experience may be simulated through a software package or through content, speakers and events that are based in a realistic business setting. Students compete in teams. Each team makes decisions in areas such as human resources, compensation packages, geographic expansion through sales offices, debt versus equity financing, manufacturing and inventory management, marketing, including pricing, advertising and product design. The impact of each of these decisions flows through the three financial statements and results in financial outcomes and ratios that measure the success of each team. Additional metrics include stakeholders beyond investors such as employee morale, community engagement, and environmental impact. Students compete for financing and for customers. Multiple presentations are made by students during the simulation to explain their strategy, their tactics, and their planned investments.

SO92	Cristian Dezso **Meets September 9, 2022 - September 11, 2022** FSaSu 8:00am - 8:00pm	Seats (Total: 50) Location: TBA
SO93	Judy Frels **Meets September 9, 2022 - September 11, 2022** Contact instructor or department for details.	Seats (Total: 26)

BUSO703 **Action Learning Project II**

Credits: 3 Grading Method: Regular

Prerequisite: BUSO702. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.

The objective of the Action Learning Project I and II is for teams to identify and solve/dissolve business problems that currently exist in organizations and inthe process, to provide significant value to organizations and their stakeholders. The experience of solving/dissolving business problems will both enablestudents to apply knowledge learned in core courses and to develop the wisdom, skills, and problem-solving capabilities of team members. This course isdesigned to promote independent learning. Faculty members will offer mini-modules on key themes such as organizational support, team dynamics and peerfeedback, but their primary role will be to facilitate the ALP process and serve as consultants to the student teams.

Access to this course will be restricted until teams have been created in your ALP I class.

SO31	Protiti Dastidar **Meets May 23, 2022 - August 25, 2022** M 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE
SO32	Protiti Dastidar **Meets May 23, 2022 - August 25, 2022** M 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 26) ONLINE ONLINE
SO33	Neta Moye **Meets May 23, 2022 - August 25, 2022** M 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 26) ONLINE ONLINE
SO34	Toby Egan **Meets May 23, 2022 - August 25, 2022** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 26) ONLINE ONLINE
SO35	Toby Egan **Meets May 23, 2022 - August 25, 2022** Tu 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 26) ONLINE ONLINE
SO36	Nicole Coomber **Meets May 23, 2022 - August 25, 2022** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 26) ONLINE ONLINE

BUSO704 **Ethical Leadership**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: EMBA678 or BUSO704.

This course will examine business ethics issues across a variety of business contexts. You will learn toapply a number of ethical theories to business problems, primarily through case studies and discussion.The goal is for you to engage actively with the material and understand the complexity of many ethical dilemmas that businesses and business owners face. Often in ethics there is not one right answer; rather,businesses and individuals must wrestle with ethical principles that may compete and conflict with one another in arriving at a resolution. We will explore conflicts between personal values and organizationalgoals, ethics as part of a business strategy, and various ethical frameworks businesses may use in understanding and implementing ethical approaches to problems.

SO11	Trevor Foulk **Meets May 23, 2022 - July 7, 2022** Tu 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE
SO12	Trevor Foulk **Meets May 23, 2022 - July 7, 2022** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE

BUSO705 Business Communications

Credits: 2 Grading Method: Regular

Restriction: Permission of BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program.

Develop the ability to communicate with and about data.

SO11	Raphael Mazzone **Meets May 23, 2022 - July 7, 2022** M 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 28) ONLINE ONLINE
SO12	Raphael Mazzone **Meets May 23, 2022 - July 7, 2022** M 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 28) ONLINE ONLINE
SO13	Mary Beth Furst **Meets May 23, 2022 - July 7, 2022** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 27) ONLINE ONLINE

SO14	Christine Schaaf **Meets May 23, 2022 - July 7, 2022** W 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 28) ONLINE ONLINE
SO15	Anne Smithson **Meets May 23, 2022 - July 7, 2022** W 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 28) ONLINE ONLINE
SO16	Anne Smithson **Meets May 23, 2022 - July 7, 2022** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 28) ONLINE ONLINE
SO17	Christine Schaaf **Meets May 23, 2022 - July 7, 2022** Th 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 28) ONLINE ONLINE
SO18	Melissa Lucas **Meets May 23, 2022 - July 7, 2022** Th 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 28) ONLINE ONLINE
SO19	Melissa Lucas **Meets May 23, 2022 - July 7, 2022** Th 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 28) ONLINE ONLINE
SO20	Melissa Lucas **Meets May 23, 2022 - July 7, 2022** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 28) ONLINE ONLINE

BUSO713 **Supply Chain Management**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI672, BULM720 or BUSO713.

Offers a practical blueprint for understanding, building, implementing, and sustaining supply chains in today's rapidly changing global supply chain environment. It will provide the student with a survey of the fast-moving Supply Chain Management discipline and practice, including the evolution of supply chain strategies, business models and technologies; current best practices in demand and supply management; and methodologies for conducting supply chain-wide diagnostic assessments and formulating process improvement plans.

SO11	Geoffrey Milsom **Meets July 11, 2022 - August 25, 2022** M 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 26) ONLINE ONLINE
SO12	Geoffrey Milsom **Meets July 11, 2022 - August 25, 2022** M 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 26) ONLINE ONLINE
SO13	Leland Gardner **Meets July 11, 2022 - August 25, 2022** M 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 26) ONLINE ONLINE
SO14	Humberto Coronado **Meets July 11, 2022 - August 25, 2022** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 26) ONLINE ONLINE
SO15	Humberto Coronado **Meets July 11, 2022 - August 25, 2022** Tu 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 26) ONLINE ONLINE
SO16	Leland Gardner **Meets July 11, 2022 - August 25, 2022** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 26) ONLINE ONLINE

BUSO716 **Decision Modeling**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.

Many different skills are required in arriving at informed managerial decisions. Among these are analytical and quantitative skills. Decision Modeling is one in a sequence of two courses that seeks to develop these two important skills. More formally, the goals of this course are: to introduce business optimization modeling techniques to aid in complex decision making environments, decision trees to structure strategic decision making problems in an uncertain environment, and Monte-Carlo simulation to help analyze and assess the risk associated with decisions in an uncertain environment. We will demonstrate the use of all techniques in this course in a spreadsheet environment.

SO11	Anna Devlin **Meets July 11, 2022 - August 25, 2022** W 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 28) ONLINE ONLINE
SO12	Anna Devlin **Meets July 11, 2022 - August 25, 2022** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 28) ONLINE ONLINE
SO13	Robert Hoffman **Meets July 11, 2022 - August 25, 2022** Th 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 28) ONLINE ONLINE
SO14	Robert Hoffman **Meets July 11, 2022 - August 25, 2022** Th 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 28) ONLINE ONLINE
SO17	Raghu Raghavan **Meets May 23, 2022 - July 7, 2022** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE

BUSO732 **Managing Digital Business Markets and Platforms**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI622, BUSM622 or BUSO732.

The objective is to understand the strategic and tactical issues involved in managing digital businesses and markets. Also, some of the characteristics of digital businesses and markets that make them unique and understand how companies can best manage them will be examined.

SO51	Tejwansh Anand	Seats (Total: 30)
	Meets July 11, 2022 - August 25, 2022	
	W 8:45pm - 10:15pm	ONLINE
	Class time/details on ELMs	ONLINE
SO52	Tejwansh Anand	Seats (Total: 30)
	Meets July 11, 2022 - August 25, 2022	
	W 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSO741 Consumer Behavior

Credits: 2 Grading Method: Regular

Prerequisite: BUSM612; or BUSO612; or BUSI650. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK715, BUSM702 or BUSO741.

Analysis of customer decision-making and how marketing strategy can be used to influence those decisions. The framework is a buyer behavior model, in which concepts from psychology, sociology, and economics are applied to individual and organizational purchase decisions. Marketing strategies of leading firms in consumer products, technology, and services (including internet services) are analyzed using a variety of case study formats. Focus is consumer behavior; however, principles can also be applied to the decision-making of business.

SO51	Rosellina Ferraro	Seats (Total: 30)
	Meets July 11, 2022 - August 25, 2022	
	Th 8:45pm - 10:15pm	ONLINE
	Class time/details on ELMs	ONLINE
SO52	Rosellina Ferraro	Seats (Total: 20)
	Meets July 11, 2022 - August 25, 2022	
	Th 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSO750 Global Trade Logistics

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT773, BULM733 or BUSO750.

Acquaints students with managerial issues in international logistics and transportation, and provides students with an understanding of issues related to import/export management and the global marketplace.

SO51	Jeffrey Mund **Meets July 11, 2022 - August 25, 2022** W 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE

BUSO758J **Special Topics in Business; Corporate Finance II**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

SO11	Ceyed Baiju **Meets May 23, 2022 - July 7, 2022** M 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE
SO12	Ceyed Baiju **Meets May 23, 2022 - July 7, 2022** M 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 25) ONLINE ONLINE
SO13	Elinda Kiss **Meets May 23, 2022 - July 7, 2022** Tu 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 26) ONLINE ONLINE
SO14	Elinda Kiss **Meets May 23, 2022 - July 7, 2022** Tu 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 26) ONLINE ONLINE

BUSO758R **Special Topics in Business; Commercial Bank Management**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

SO51	Clifford Rossi	Seats (Total: 25)
	Meets July 11, 2022 - August 25, 2022	
	W 7:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSO759 **Independent Study in Business**

(Perm req)

Credits: 1-4 Grading Method: Regular

Independent study for Masters students in Business.

Contact department for information to register for this course.

BUSO780 **Fraud Examination, Detection, and Deterrence in the Business Environment**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.

The world is full of fraud schemes, victims, schemers, and those who catch them. Business, the public sector, and non-profitshave their bottom lines impacted every day by fraud. This class is about all of this, and is an introduction to fraud in theoperational environment. The primary objective of this course is for students to gain a conceptual understanding of how fraudoccurs, how it can be prevented, and how fraud can be detected through practical application of skills and tools. We will alsobriefly practice the skills needed for providing testimony in court as a lay or expert witness. This course addresses generalbackground relating to fraud, delves into the myriad types of financial fraud, corruption, employee theft, cybercrime, identitytheft, red collar crime, scams, and examines the trends in fraud detection and investigation. The goal is that, whether youbecome a fraud fighter, or continue in your management careers, you will leverage this course to prevent and detect fraud atyour workplace.

SO51	Samuel Handwerger	Seats (Total: 30)
	Meets July 11, 2022 - August 25, 2022	
	Th 8:45pm - 10:15pm	ONLINE
	Class time/details on ELMs	ONLINE

CBMG Cell Biology & Molecular Genetics Summer 2022

CBMG699 **Special Problems in Cell Biology and Molecular Genetics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in the area of Cell Biology and Molecular Genetics.

Contact department for information to register for this course.

CBMG799 **Masters Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Master's Thesis Research in Cell Biology and Molecular Genetics.

Contact department for information to register for this course.

CBMG899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Doctoral Dissertation Research.

0101	Instructor: TBA **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
0201	Instructor: TBA **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)
0213	Jonathan Dinman **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0220	Wenxia Song **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0260	Heven Sze **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0275	David Mosser **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

CCJS Criminology and Criminal Justice Summer 2022

CCJS100 **Introduction to Criminal Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Introduction to the administration of criminal justice in a democratic society, with emphasis on the theoretical and historical development of law enforcement. The principles of organization and administration for law enforcement; functions and specific activities; planning and research; public relations; personnel and training; inspection and control; direction; policy formulation.

0201	Mark Mills **Meets July 11, 2022 - August 19, 2022** MTuWTh 9:00am - 10:40am	Seats (Total: 30) ASY 2309
WB11	Gabrielle Wy **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 50) ONLINE

CCJS105 **Introduction to Criminology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Criminal behavior and the methods of its study; causation; typologies of criminal acts and offenders; punishment, correction and incapacitation; prevention of crime.

0201	Gabrielle Wy **Meets July 11, 2022 - August 19, 2022** MTuWTh 11:00am - 12:40pm	Seats (Total: 30) ASY 2309
WB11	Jessica Morabito **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 50) ONLINE
YW41	Ziyue Gu **Meets July 11, 2022 - July 29, 2022** MTuWThF 10:00am - 1:00pm *Restricted to students in Terp Young Scholars.*	Seats (Total: 16) ONLINE

CCJS200 **Statistics for Criminology and Criminal Justice**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: CCJS100 or CCJS105; and 1 course with a minimum grade of C- from (STAT100, MATH107, MATH111, MATH120, MATH130, MATH135, MATH140). Restriction: Must be in Criminology and Criminal Justice program; or permission of BSOS-Criminology & Criminal Justice department. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201.

Introduction to descriptive and inferential statistics, graphical techniques, and the computer analysis of criminology and criminal justice data. Basic procedures of hypothesis testing, correlation and regression analysis, and the analysis of continuous and binary dependent variables. Emphasis upon the examination of research problems and issues in criminology and criminal justice.

Please note, for Summer Term, restrictions will not apply.

0101	Alan Lehman	Seats (Total: 40)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWTh 11:00am - 12:40pm	LEF 2166	

CCJS300 **Criminological and Criminal Justice Research Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: CCJS100 and CCJS105; and (PSYC200, CCJS200, ECON321, BMGT230, or SOCY201).

Introduction to the formulation of research questions covering crime and justice, research designs, data collection, and interpretation and reporting in criminological and justice-system settings.

0101	Alan Lehman	Seats (Total: 40)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWTh 1:00pm - 2:40pm	LEF 2166	

CCJS320 **Introduction to Criminalistics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

An introduction to modern methods used in the detection, investigation and solution of crimes. Practical analysis of evidence in a crime laboratory, including fingerprints and other impressions, firearms ID and ballistics, hairs and fibers, document examination, and use of polygraph.

0201	Thomas Mauriello	Seats (Total: 24)	
	Meets July 11, 2022 - August 19, 2022		
	M 5:00pm - 7:45pm Class time/details on ELMs	MMH 2401 ONLINE	Discussion

CCJS325 **Slavery in the Twenty First Century: Combating Human Trafficking**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

The trafficking of human beings in its historical, legal, economic, political and social contexts. Scope of the global problem, different forms of human trafficking, and regional trends and practices. Roles of government, the international community and individual actors. Strategies to combat trafficking.

WB11	Jessica Morabito	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

CCJS342 **Corrections**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100. Restriction: Must be in a major within the BSOS-Criminology & Criminal Justice department. Credit only granted for: CCJS342 or CCJS452.

Examination of the American correctional system. Identification of historical and contemporary themes, issues, and trends. Evaluation of correctional policies, practices and research.

Please note, for Summer Term, restrictions will not apply.

WB21	Justine Madoo	Seats (Total: 40)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

CCJS345 **Courts and Sentencing**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100. Restriction: Must be in a major within the BSOS-Criminology & Criminal Justice department.

Contemporary issues in the American court system such as prosecution, sentencing and punishment. Theoretical perspectives on courtroom decision-making integrated with empirical research. Courts and sentencing processes, including initial charging, pretrial detention and final sentencing outcomes. Innovations in courts and sentencing.

Please note, for Summer Term, restrictions will not apply.

WB11	Cortney Fisher	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

CCJS359 **Field Training in Criminology and Corrections**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Supervised field training in public or private social agencies. Group meetings, individual conferences and written program reports.

Contact department for information to register for this course.

CCJS386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Criminology & Criminal Justice department; and junior standing or higher.

Contact department for information to register for this course.

CCJS398 **Law Enforcement Field Training; Law Enforcement Field Training**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Supervised, structured and focused field training in law enforcement agencies.

Contact department for information to register for this course.

CCJS399 **Independent Study in Criminology and Criminal Justice**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Integrated reading or research under direction and supervision of a faculty member.

Contact department for information to register for this course.

CCJS450 **Advanced Juvenile Delinquency**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105 and CCJS300. Credit only granted for: CCJS350 or CCJS450.

Examination of juvenile delinquency in the United States. Nature and extent of juvenile delinquency, historical approaches, sociological and criminological theories and research, social contexts including the institutions of families, schools, and peers, and social responses. Prevention, punishment, and treatment programs, both within and outside of the juvenile justice and criminal justice systems.

WB11	Erin Tinney	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

CCJS454 **Contemporary Criminological Theory**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS300 and CCJS105.

Examination of the main theoretical accounts that explain the underlying causes of criminal behaviors. Explore how individual choices, socialization experiences, biological factors and social structure affect criminal behaviors.

WB21	Kathryn Kozey	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

CCJS458A **Special Topics in Study Abroad IV; Human Trafficking in Context: Reactions to Human Trafficking in Thailand**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CCJS458B **Special Topics in Study Abroad IV; Human Trafficking in Context: The Vulnerabilities Assosciated with Being a Refugee in Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CCJS605 **Program Evaluation for Criminal Justice**

Credits: 3 Grading Method: Regular

Credit only granted for: CCJS605 or CCJS609. Formerly: CCJS609.

Designing, implementing and evaluating programs in criminal justice. Topics include diagnosing program needs, planning and tailoring evaluation programs, program monitoring, assessing program impact, program efficiency, and the social context of evaluation.

Contact department for information to register for this course.

CCJS671 **Technology in Modern Policing**

Credits: 3 Grading Method: Regular

Restriction: Must be in one of the following programs: Public Safety Leadership and Administration (MPS); Leadership in Diverse Organizations (GC); Criminology and Criminal Justice (Master's); Criminology and Criminal Justice (Doctoral); Sociology (Master's); Sociology (Doctoral); or permission from BSOS-Sociology department.

Leaders in law enforcement must be able to effectively evaluate, deploy, and manage technology projects. This course covers state-of-the-art technologies used in everyday policing, as well as emerging and future technologies. Students evaluate technological solutions to public safety problems from a legal/policy and privacy/optics perspective, from a procurement and budgetary perspective, and from a technical perspective. Students learn the challenges and best practices associated with deploying major technology projects. This course covers the underlying technical aspects of these technologies at a high level, such that students are able to successfully make informed decisions.

PLL1	Dinesh Patil, John Conroy	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Public Safety Leadership and Administration or a graduate student in a Semester Academic Calendar program.	

CCJS699 **Special Criminological Problems**

Credits: 1-3 Grading Method: Regular, Audit

Supervised study of a selected problem in the field of criminal justice.

Contact department for information to register for this course.

CCJS720 **Criminal Justice System Planning: Policy Analysis for Crime Control**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed 1 course in research methodology; and 1 course in CCJS. Formerly: CJUS720.

System theory and method; examination of planning methods and models based primarily on a systems approach to the operations of the criminal justice system.

Contact department for information to register for this course.

CCJS799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

CCJS899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Doctoral dissertation research in criminal justice and criminology.

Contact department for information to register for this course.

CHBE Chemical and Biomolecular Engineering Summer 2022

CHBE101 **Introduction to Chemical and Biomolecular Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM135; or students who have taken courses with comparable content may contact the department. Corequisite: MATH141. Restriction: Must be in Engineering: Chemical program; or permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE101 or ENCH215. Formerly: ENCH215.

Introduction to methods of chemical engineering calculations and analysis. Stoichiometric relations, material and energy balances, and behavior of gases, vapors, liquids and solids. Analytical and computer methods.

WB11	Ganesh Sriram	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	TuWTh 1:00pm - 3:40pm	ONLINE

CHBE250 **Computer Methods in Chemical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHBE101; and must have completed or be concurrently enrolled in MATH241. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE250 or ENCH250. Formerly: ENCH250.

Algorithm development and application of software to the analysis of chemical engineering problems. File management and editing, graphics and numerical methods. Use of spreadsheets, statistics/math software and process simulators for the design of chemical process equipment.

0201	Daniel Lugar	Seats (Total: 40)	
	Meets July 11, 2022 - August 19, 2022		
	MF 4:30pm - 7:30pm	PHY 2106	
	Th 5:45pm - 7:45pm	PHY 2106	

CHBE301 **Chemical and Biomolecular Engineering Thermodynamics I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE101; and must have completed or be concurrently enrolled in CHBE250 and MATH241. Restriction: Must be in Engineering: Chemical program; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: ENCH300 or CHBE301. Formerly: ENCH300.

Principles of thermodynamics and their application to engineering problems. First and second laws of thermodynamics, properties of gases, liquids and solids, phase equilibrium, flow and non-flow systems, energy conversion, production of work from heat, thermodynamic analysis of processes, equilibrium stage operations and the thermodynamics of chemically reacting systems.

WB21	Daphne Fuentevilla	Seats (Total: 40)	
	Meets July 11, 2022 - August 19, 2022		
	TuW 4:30pm - 7:30pm	ONLINE	
	Th 3:30pm - 5:30pm	ONLINE	

CHEM Chemistry Summer 2022

CHEM131 **Chemistry I - Fundamentals of General Chemistry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNL (if taken with CHEM132), DSNS

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: CHEM132. Recommended: For Science majors. Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM153 or CHEM146. Formerly: CHEM103.

An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM131 is the first course in a four-semester sequence for students majoring in the sciences, other than Chemistry and Biochemistry majors.

0131	Natalia White	Seats (Total: 48)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 8:00am - 9:20am	PHY 2214	
	TuTh 10:00am - 11:20am	PHY 2214	Discussion

CHEM132 **General Chemistry I Laboratory**

Credits: 1 Grading Method: Regular, Pass-Fail

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.

Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.

Students must pay a $40.00 lab materials fee.

0131	Natalia White	Seats (Total: 24)	
	Meets May 31, 2022 - July 8, 2022		
	MWF 9:30am - 12:20pm	ESJ 1312	Lab

CHEM135 **General Chemistry for Engineers**

Credits: 3 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH120 or higher. Credit only granted for: CHEM103, CHEM113, CHEM131, CHEM135, or CHEM146.

The nature and composition of matter, solutions, chemical reactions, equilibria, and electrochemistry, with applications to various fields of engineering.

WB11	Elizabeth Griffith	Seats (Total: 48)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 11:00am - 12:20pm	ONLINE	
	TuTh 9:30am - 10:50am	ONLINE	Discussion

CHEM231 **Organic Chemistry I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131, CHEM135, or CHEM146; and (CHEM132, CHEM136, CHEM147, or CHEM177); and a grade of C- or better in the prerequisites is required of College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM232. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

The chemistry of carbon: aliphatic compounds, aromatic compounds, stereochemistry, arenes, halides, alcohols, esters and spectroscopy.

0171	Monique Koppel	Seats (Total: 34)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 11:00am - 12:20pm	KEB 1110	
	TuTh 9:30am - 10:50am	PLS 1111	Discussion
0172	Monique Koppel	Seats (Total: 34)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 11:00am - 12:20pm	KEB 1110	
	TuTh 9:30am - 10:50am	PHY 2213	Discussion
0271	Lenea Stocker	Seats (Total: 36)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWThF 11:00am - 12:20pm	PLS 1140	
	TuTh 9:30am - 10:50am	PLS 1117	Discussion
0272	Lenea Stocker	Seats (Total: 36)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWThF 11:00am - 12:20pm	PLS 1140	
	TuTh 9:30am - 10:50am	PLS 1111	Discussion

CHEM232 **Organic Chemistry Laboratory I**

Credits: 1 Grading Method: Regular

Prerequisite: CHEM131 and CHEM132; or (CHEM135 and CHEM136); or (CHEM146 and CHEM147). And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM231. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

Provides experience in developing some basic laboratory techniques, recrystallization, distillation, extraction, chromatography.

Students must pay a $40.00 Laboratory Materials fee.

0171	Monique Koppel	Seats (Total: 18)	
	Meets May 31, 2022 - July 8, 2022		
	MWF 8:00am - 10:50am	CHM 1360	Lab

0172	Monique Koppel **Meets May 31, 2022 - July 8, 2022** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1356	 Lab
0271	Lenea Stocker **Meets July 11, 2022 - August 19, 2022** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1360	 Lab
0272	Lenea Stocker **Meets July 11, 2022 - August 19, 2022** MWF 8:00am - 10:50am	Seats (Total: 18) CHM 1356	 Lab

CHEM241 **Organic Chemistry II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Credit only granted for: CHEM241, CHEM243 or CHEM247. Formerly: CHEM243.

A continuation of CHEM231 with emphasis on molecular structure; substitution reactions; carbonium ions; aromaticity; synthetic processes; macromolecules.

0191	Bonnie Dixon **Meets May 31, 2022 - July 8, 2022** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 34) PLS 1140 PLS 1117	 Discussion
0192	Bonnie Dixon **Meets May 31, 2022 - July 8, 2022** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 34) PLS 1140 PHY 2122	 Discussion
0291	Lee Friedman **Meets July 11, 2022 - August 19, 2022** MTuWThF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 34) PHY 2106 PHY 2106	 Discussion

0292	Lee Friedman	Seats (Total: 34)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWThF 11:00am - 12:20pm	PHY 2106	
	TuTh 9:30am - 10:50am	PHY 1219	Discussion

CHEM242 **Organic Chemistry Laboratory II**

Credits: 1 Grading Method: Regular

Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM241. Credit only granted for: CHEM243 or CHEM247. Formerly: CHEM243.

Synthetic organic chemistry through functional group manipulation, introduction to instrumentation essential to analysis and structure elucidation.

Students must pay a $40.00 Laboratory Materials fee.

0191	Bonnie Dixon	Seats (Total: 18)	
	Meets May 31, 2022 - July 8, 2022		
	MWF 8:00am - 10:50am	CHM 1326	Lab
0192	Bonnie Dixon	Seats (Total: 18)	
	Meets May 31, 2022 - July 8, 2022		
	MWF 8:00am - 10:50am	CHM 1330	Lab
0291	Lee Friedman	Seats (Total: 18)	
	Meets July 11, 2022 - August 19, 2022		
	MWF 8:00am - 10:50am	CHM 1326	Lab
0292	Lee Friedman	Seats (Total: 18)	
	Meets July 11, 2022 - August 19, 2022		
	MWF 8:00am - 10:50am	CHM 1330	Lab

CHEM271 **General Chemistry and Energetics**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM272. Credit only granted for: CHEM113, CHEM153, CHEM271 or CHEM276. Formerly: CHEM113.

An introduction to the physical aspects of chemistry; chemical kinetics, thermodynamics and electrochemistry in the context of current chemistry research.

0241	Amanda Schech **Meets July 11, 2022 - August 19, 2022** MWF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 36) CHM 1402 PHY 2122	 Discussion
0242	Amanda Schech **Meets July 11, 2022 - August 19, 2022** MWF 11:00am - 12:20pm TuTh 9:30am - 10:50am	Seats (Total: 36) CHM 1402 PHY 2213	 Discussion

CHEM272 **General Bioanalytical Chemistry Laboratory**

Credits: 2 Grading Method: Regular, Pass-Fail

Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM271. Credit only granted for: CHEM227, CHEM272 or CHEM277.

An introduction to analytical chemistry with an emphasis on bio-analytical instrumentation and techniques.

Students must pay a $40.00 laboratory materials fee.

0241	Amanda Schech **Meets July 11, 2022 - August 19, 2022** TuTh 11:00am - 12:20pm MWF 8:00am - 10:50am	Seats (Total: 24) CHM 1402 ESJ 2312	 Lab
0242	Amanda Schech **Meets July 11, 2022 - August 19, 2022** TuTh 11:00am - 12:20pm MWF 8:00am - 10:50am	Seats (Total: 24) CHM 1402 ESJ 2316	 Lab

CHEM399 **Introduction to Chemical Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399A **Introduction to Chemical Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Prerequisite: permission of department.

Contact department for information to register for this course.

CHEM399B **Introduction to Chemical Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Prerequisite: permission of department.

Contact department for information to register for this course.

CHEM399C **Introduction to Chemical Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Prerequisite: permission of department.

Contact department for information to register for this course.

CHEM399X **Introduction to Chemical Research**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Prerequisite: permission of department.

Contact department for information to register for this course.

CHEM699 **Special Problems in Chemistry**

Credits: 1-6 Grading Method: Regular, Audit

Laboratory experience in a research environment.

Contact department for information to register for this course.

CHEM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

CHEM898 **Pre-Candidacy Research**

Credits: 1 Grading Method: Regular

Contact department for information to register for this course.

CHEM899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

CHIN Chinese Summer 2022

CHIN101 **Intensive Elementary Chinese I**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have attained appropriate Foreign Language Placement Test (FLPT) score.

Introduction to speaking, reading, and writing Chinese with an emphasis on mastering the essentials of pronunciation, basic characters and structural patterns.

WB11	Guiling Hu	Seats (Total: 15)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

CHIN102 **Elementary Spoken Chinese**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHIN101; or students who have taken courses with comparable content may contact the department; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN103. Additional information: Must be taken in conjunction with CHIN103.

Continued study of grammatical patterns and vocabulary buildup with particular emphasis on conversation.

WB21	Guiling Hu	Seats (Total: 15)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

CHIN103 **Elementary Written Chinese**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHIN101; or students who have taken courses with comparable content may contact the department; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN102. Additional information: Must be taken in conjunction with CHIN102.

Continued study of grammatical patterns and buildup of vocabulary with particular emphasis on reading and writing.

WB21	Guiling Hu	Seats (Total: 15)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

CHIN169A **Special Topics in Study Abroad I; Elementary Chinese I**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN169B **Special Topics in Study Abroad I; Elementary Chinese II**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN169C **Special Topics in Study Abroad I; Introduction to Chinese Language I**

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN169D **Special Topics in Study Abroad I; Introduction to Chinese Lanuage II**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN201 **Intermediate Spoken Chinese I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: CHIN102; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN202. Additional information: Must be taken in conjunction with CHIN202.

Emphasis on development of conversational skills with vocabulary build-up and controlled conversation.

CHIN201 and 202 are co-requisites. Students must take both together.

WB11	Jungjung Lee-Heitz	Seats (Total: 15)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

CHIN202 **Intermediate Written Chinese I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DVCC

Prerequisite: CHIN103; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN201. Additional information: Must be taken in conjunction with CHIN201.

Reading and writing skills with emphasis on grammar and Chinese characters.

CHIN201 and 202 are co-requisites. Students must take both together.

WB11	Jungjung Lee-Heitz	Seats (Total: 15)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

CHIN203 **Intermediate Spoken Chinese II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: CHIN201; or students who have taken courses with comparable content may contact the department; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN204. Additional information: Must be taken in conjunction with CHIN204.

Continuation of CHIN201.

CHIN203 and 204 are co-requisites. Students must take both together.

WB21	Yuli Wang	Seats (Total: 15)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

CHIN204 **Intermediate Written Chinese II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DVCC

Prerequisite: CHIN202; or students who have taken courses with comparable content may contact the department; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN203. Additional information: Must be taken in conjunction with CHIN203.

Continuation of CHIN202.

CHIN203 and 204 are co-requisites. Students must take both together.

WB21	Yuli Wang	Seats (Total: 15)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

CHIN269A **Special Topics in Study Abroad II; Exploring Confucius' China**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269B **Special Topics in Study Abroad II; Chinese Business Issues and Practices**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269I **Special Topics in Study Abroad II; Intermediate Spoken Chinese I**

Credits: 2 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269J **Special Topics in Study Abroad II; Intermediate Chinese I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269K **Special Topics in Study Abroad II; Intermediate Chinese II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269P **Special Topics in Study Abroad II; The China Phenomenon: Society, Politics and Business**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269V **Special Topics in Study Abroad II; Chinese Calligraphy I**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269W **Special Topics in Study Abroad II; Chinese Calligraphy II**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN269Z **Special Topics in Study Abroad II; Modern Chinese Culture and Society**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN301 **Advanced Chinese I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHIN202; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Readings in expository and fictional writing with conversation and composition.

Contact department for information to register for this course.

CHIN302 **Advanced Chinese II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHIN301; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Continuation of CHIN301.

Contact department for information to register for this course.

CHIN315 **Modern Chinese Literature in Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHU

Major works of fiction and drama from 1920 to the present read in the context of social and literary change. Emphasis on western and traditional Chinese influences on the writers and their works. No knowledge of Chinese required.

WB11	Ying Xue Liu	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

CHIN369B **Special Topics in Study Abroad III; Advanced Chinese I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN369C **Special Topics in Study Abroad III; Advanced Chinese II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHIN369E **Special Topics in Study Abroad III; Advanced Chinese IV**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CHPH Chemical Physics Summer 2022

CHPH718D **Special Topics in Chemical Physics; Sodium Spinor Bose-Einstein Condensation**

Credits: 3 Grading Method: Regular, Audit

A discussion of current research problems in chemical physics.

0149	Paul Lett	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

CHPH799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

CHPH898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CHPH899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

CHSE Counseling, Higher Education, and Special Education Summer 2022

CHSE205 **Disability: From Stigma and Sideshow to Mainstream and Main Street**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP, SCIS

Credit only granted for: EDSP289I or CHSE205. Formerly: EDSP289I.

Explores the cultural, historical, educational, and medical roots of difference among human beings and examines the impact of cultural and technological changes on individuals traditionally identified as disabled. The course is designed to develop a broad understanding of the concept of "disability" and the emerging technologies that shape contemporary understanding of this phenomenon and the lives of those considered disabled.

WB11	Jerae Kelly	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

CINE Cinema and Media Studies Summer 2022

CINE245 **Film Form and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Cross-listed with: ENGL245. Credit only granted for: ENGL245, CINE245 or FILM245. Formerly: FILM245.

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

WB21	Konstantinos Pozoukidis	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

CINE319B **Special Topics in Documentary, Animation, Experimental Cinema, and Other Visual Media; Disney without Disney: The Afterlives of Children's Media Icons**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Examine the possibilities of non-narrative cinema, or cinema that is structured differently from the fiction feature film, as well as other media (television, digital imagery, and photography) that entertain a close relationship with cinema in terms of form, content, and audience. Content varies.

Crosslisted with SLLC368A. Credit only granted for CINE319B, FILM319B, or SLLC368A.

WB61	Paul Cote	Seats (Total: 25)
	Meets August 1, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

CINE329B **Special Topics in National/International Cinemas; Forbidden Films: Global Perspectives on Cinema Censorship**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

In this asynchronous course, we will examine some of the most important films censored in different nations and cultures throughout the history of cinema. These films, censored, challenged, or banned on political, social, sexual, religious grounds, and for violent contents, will provide fascinating material to consider the relationship between culture and politics, morality and ideology. Films may come from the United States, the Soviet Union, the United Kingdom, Italy, Canada, China, India, Thailand, Germany, and Belgium. Crosslisted with SLLC368B. Credit only granted for CINE329B, FILM329B, or SLLC368B.

WB21	Jason Kuo	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

CINE329G **Special Topics in National/International Cinemas; Hollywood and Politics in the 20th Century**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Hollywood and Washington have been obsessed with each other for a long time. This course explores the history of this "dangerous" relation during the past 100 years. Crosslisted with HIST319W. Credit only granted for HIST319W or CINE329G.

WB31	Saverio Giovacchini	Seats (Total: 40)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

CINE329V **Special Topics in National/International Cinemas; Voices of West African Filmmakers: From Independence to the Present**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Crosslisted with SLLC368V. Credit only granted for CINE329V or SLLC368V.

WB31	Valerie Orlando	Seats (Total: 25)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

CINE359C **Special Topics in Genres/Auteurs/Cinema Movements; Disaster Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.

Crosslisted with SLLC368K. Credit only granted for CINE359C, FILM359C, or SLLC368K.

WB41	Daniel Richter	Seats (Total: 25)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

CINE429T **Special Topics in National/International Cinemas; Middle Eastern Cinema: Comedy, Horror, Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses in National/International Cinemas may examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

A close look at transregional genres in contemporary Middle Eastern cinemas, with the focus on comedy, horror, and political cinema. Taught in English. Taught online, asynchronous format. Cross-listed with ARAB499T. Credit only granted for ARAB499T, CINE429T, or FILM429T.

WB51	Valerie Anishchenkova	Seats (Total: 25)
	Meets June 21, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

CINE459M **Special Topics in Genres/Auteurs/Cinema Movements; Science Fiction Cinema: Masterworks**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in genres, auteurs, and cinema movements.

Crosslisted with SLLC468M. Credit only granted for CINE459M, FILM459M, or SLLC468M.

WB11	Jason Kuo	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

CLAS Classics Summer 2022

CLAS170 **Ancient Myths and Modern Lives**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU, SCIS

Cross-listed with: RELS170. Credit only granted for: CLAS170 or RELS170. Additional information: This course cannot be taken for language credit.

What are myths and why do we tell them? What powers do myths have? We will tackle these questions by looking at the enduring and fascinating myths from ancient Greece and Rome. In addition to studying how they shaped ancient societies, we will also look at their modern influence and reflect upon the power that myths still hold in our contemporary world. Taught in English.

0201	Talia Chicherio	Seats (Total: 12)
	Meets July 11, 2022 - August 19, 2022	
	MTuWTh 10:00am - 11:40am	PLS 1130
WB11	William Proffitt	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

CLAS171 **Classical Myths in Europe**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

The role which Classical Myths have played in the arts, architecture and politics of a major European city. This will only be offered through the study abroad program.

Contact department for information to register for this course.

CLAS269R **Special Topics in Study Abroad II; Are We Rome?**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

CLAS276 **Are We Rome?**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSHU, SCIS

Credit only granted for: CLAS276 or CLAS289A. Formerly: CLAS289A.

America, from its very origins as an independent nation, saw itself as the new Rome: its system of government is built on Roman precedents, its national buildings look as if they came from the Roman Forum, and its leisure activities take us to stadiums modeled on the Colosseum. America's relationship to Rome, however, raises its greatest anxiety: will America fall as Rome did? In 1776, the year of American independence, Edward Gibbon published his History of the Decline and Fall of the Roman Empire; America has been thinking about the trajectory of its history alongside Rome's from the very beginning.

WB21	Gregory Staley	Seats (Total: 75)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

CLAS308P **The Classics in Context; The Ancient Roman City: Pompeii: Life and Art**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

A Study Abroad course which introduces students to the topography, archaeology and culture of the ancient Mediterranean world.

The ruins of the Roman city of Pompeii provide us with exceptional evidence about the life and art of an ancient Roman rural town. We can walk through the skeletal structure of its streets and enter its houses, civic and religious buildings, coming to understand what the town originally looked like, as many of its artworks and colorful walls remain. This course will investigate the life and art of Pompeii and the other sites and towns buried in the eruption of Mount Vesuvius, including evidence for the daily lives of Romans of different classes: women and men, young and old, rich and poor.

WB11	Crispin Corrado	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	TuTh 10:00am - 10:30am	ONLINE

CLAS380 **Archaeological Fieldwork in Greece**

Credits: 4 | Grading Method: Regular | General Education: DSHS, DSHU

Credit only granted for: CLAS369K or CLAS380. Formerly: CLAS369K.

Students will learn about the archaeology, history and culture of Greece by participating in the archaeological investigations at Kenchreai, the eastern port of ancient Corinth. Students will learn about data analysis, artifact processing, and conservation, all important components in archaeological fieldwork. This program also gives students a rare chance to live and to learn in one of the most archaeologically rich, historically important, and naturally beautiful regions in Greece, the northeastern Peloponnese. Students will visit sites and museums throughout this region, attend seminars, and experience life in a small village. In this way they will learn not only about the practice of archaeological field research, but also about Greek history and culture from ancient to modern times. While the course focuses on southern Greece during the Roman Empire and Late Antiquity, a period of prosperity and diversity at Kenchreai and in its broader area, students will also explore cultural and historical developments that influenced other regions and longer periods, from the Bronze Age to the Modern era, including religion and cult-practice, art and iconography, settlement and the environment, and the construction of identity.

Contact department for information to register for this course.

CLAS499 **Independent Study in Classical Languages and Literatures**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

CLAS499P **Independent Study in Classical Languages and Literatures; Classical Myths in Europe**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

CLAS699 **Independent Study in Classical Civilization**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

CLAS799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

CLFS Chemical and Life Sciences Summer 2022

CLFS608 **Seminar in Current Topics in Chemical and Life Science; Scholarly Paper**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Seminar in current topics in the Life Sciences. Contact Program Director or instructor before registering.

Contact Dr. Brett Kent (bkent@umd.edu) to establish a mentor; and then contact the Office of Extended Studies (oes@umd.edu) to register.

Contact department for information to register for this course.

CLFS608A **Seminar in Current Topics in Chemical and Life Science; Independent Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Seminar in current topics in the Life Sciences. Contact Program Director or instructor before registering.

Contact the Office of Extended Studies (oes@umd.edu) to register.

Contact department for information to register for this course.

CLFS609E **Special Topics; Immunology**

Credits: 3 Grading Method: Regular, Audit

Individual instruction course. Contact Program Director or instructor before registering.

Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact oes@umd.edu.

PLC1	Kenneth Frauwirth	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

CLFS609J **Special Topics; Evolutionary Biology**

Credits: 3 Grading Method: Regular, Audit

Individual instruction course. Contact Program Director or instructor before registering.

Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact oes@umd.edu.

PLC1	Alina Avanesyan	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

CLFS619C **Special Topics in Chemistry; Chemical Biology**

Credits: 1-3 Grading Method: Regular, Audit, Sat-Fail

Topics of current interest and special importance.

Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact oes@umd.edu.

PLC1	Marjan Alaghmand	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

CLFS725 **Experimental Design**

Credits: 2 Grading Method: Regular, Audit

Credit only granted for: LFSC710, LFSC719, or LFSC725. Formerly: LFSC719.

Experimental design and statistics for science teachers that emphasizes the underlying structure of data and how this affects the quality and reliability of experiments. Examines the nature of data, the methods for designing rigorous experiments, important experimental design formats, and the relationships between data structure and analysis. Course work focuses on the design and analysis of orginal experiments for a series of research problems.

Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact oes@umd.edu.

Click here for program information.

PLC1	Bretton Kent	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

CMSC Computer Science Summer 2022

CMSC131 **Object-Oriented Programming I**

Credits: 4 Grading Method: Regular

Corequisite: MATH140. Credit only granted for: CMSC131 or IMDM127.

Introduction to programming and computer science. Emphasizes understanding and implementation of applications using object-oriented techniques. Develops skills such as program design and testing as well as implementation of programs using a graphical IDE. Programming done in Java.

0101	Fawzi Emad	Seats (Total: 85)
	Meets May 31, 2022 - August 5, 2022	
	MTuWThF 11:05am - 12:25pm	IRB 0324

CMSC132 **Object-Oriented Programming II**

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC131; or must have earned a score of 5 on the A Java AP exam; or must have earned a satisfactory score on the departmental placement exam. And minimum grade of C- in MATH140.

Introduction to use of computers to solve problems using software engineering principles. Design, build, test, and debug medium -size software systems and learn to use relevant tools. Use object-oriented methods to create effective and efficient problem solutions. Use and implement application programming interfaces (APIs). Programming done in Java.

WB11	Pedram Sadeghian	Seats (Total: 120)
	Meets May 31, 2022 - August 5, 2022	
	MTuWThF 1:00pm - 2:20pm	ONLINE
	Class time/details on ELMs	ONLINE

CMSC198R **Special Topics in Computer Science for Non-Majors; Introduction to Web Programming using HTML/JavaScript**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A course designed to allow non-computer science majors and non-computer engineering majors to pursue a specialized topic or project.

YS41	Nelson Padua-Perez	Seats (Total: 40)
	Meets July 11, 2022 - July 29, 2022	
	MTuWThF 10:00am - 1:00pm	IRB 1116
	Restricted to students in Terp Young Scholars.	

CMSC216 **Introduction to Computer Systems**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC132; and minimum grade of C- in MATH141. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in Engineering: Computer program; or must be in the Computer Science Minor program; and Permission of CMSC - Computer Science department.

Introduction to the interaction between user programs and the operating system/hardware. Major topics include C programming, introductory systems programming, and assembly language. Other concepts covered include UNIX, machine data representation, thread management, optimization, and virtual memory. Programming is done in the Linux Environment.

0101	Nelson Padua-Perez	Seats (Total: 140)
	Meets May 31, 2022 - August 5, 2022	
	MTuWThF 2:00pm - 3:20pm	IRB 0324

CMSC250 **Discrete Structures**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC131; and minimum grade of C- in MATH141. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in Engineering: Computer program; or must be in the Computer Science Minor program; and Permissions of CMSC - Computer Science department.

Fundamental mathematical concepts related to computer science, including finite and infinite sets, relations, functions, and propositional logic. Introduction to other techniques, modeling and solving problems in computer science. Introduction to permutations, combinations, graphs, and trees with selected applications.

0101	Emily Kaplitz	Seats (Total: 50)
	Meets May 31, 2022 - August 5, 2022	
	MTuWThF 11:00am - 12:20pm	CSI 2117
	Class time/details on ELMs	ONLINE

CMSC298A **Special Topics in Computer Science**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

A course designed to allow a lower level student to pursue a specialized topic or project.

Contact department for information to register for this course.

CMSC330 **Organization of Programming Languages**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in the Computer Science Minor program; or must be in Engineering: Computer program; and Permission of CMSC - Computer Science department.

A study of programming languages, including their syntax, semantics, and implementation. Several different models of languages are discussed, including dynamic, scripting (e.g., Ruby, Python) functional (e.g., OCaml, Haskell, Scheme), and memory safe systems programming (e.g., Rust). Explores language features such as formal syntax, scoping and binding of variables, higher-order programming, typing, and type polymorphism. Introduces finite automata, context free grammar, parsing, lambda calculus, and basics of security attacks and software security.

0101	Cliff Bakalian	Seats (Total: 85)
	Meets May 31, 2022 - July 8, 2022	
	MTuWThF 11:00am - 12:20pm	IRB 1116
	Class time/details on ELMs	ONLINE

CMSC335 **Web Application Development with JavaScript**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250. Restriction: Permission of CMNS-Computer Science Department. Credit only granted for: CMSC389N or CMSC335. Formerly: CMSC389N.

Provides an introduction to modern ways of developing Web Applications/Services using JavaScript for both front-end and back-end. The course covers topics on fundamental JavaScript language constructs, server-side JavaScript, back-end data persistence, and client-side JavaScript to build Web Applications that interact with Web services and back-end databases.

0101	Ilchul Yoon	Seats (Total: 85)
	Meets May 31, 2022 - July 8, 2022	
	MTuWThF 8:30am - 9:55am	IRB 0318

CMSC351 **Algorithms**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in Engineering: Computer program; or must be in the Computer Science Minor program; and Permission from the CMSC - Computer Science department. Credit only granted for: CMSC251 or CMSC351. Additional information: CMSC351 may not count as one of the required upper level CMSC courses for students who are required to have 24 upper level CMSC credits for graduation, i.e. for students who became computer science majors prior to Fall, 2002.

A systematic study of the complexity of some elementary algorithms related to sorting, graphs and trees, and combinatorics. Algorithms are analyzed using mathematical techniques to solve recurrences and summations.

0201	Justin Wyss-Gallifent	Seats (Total: 85)
	Meets July 11, 2022 - August 19, 2022	
	MTuWThF 2:00pm - 3:20pm	IRB 0318

CMSC411 **Computer Systems Architecture**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: ENEE446 or CMSC411.

Input/output processors and techniques. Intra-system communication, buses, caches. Addressing and memory hierarchies. Microprogramming, parallelism, and pipelining.

0101	Ilchul Yoon	Seats (Total: 85)
	Meets May 31, 2022 - July 8, 2022	
	MTuWThF 11:00am - 12:20pm	IRB 0318
	Class time/details on ELMs	ONLINE

CMSC425 **Game Programming**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC420.

An introduction to the principles and practice of computer game programming and design. This includes an introduction to game hardware and systems, the principles of game design, object and terrain modeling, game physics, artificial intelligence for games, networking for games, rendering and animation, and aural rendering. Course topics are reinforced through the design and implementation of a working computer game.

0101	Stevens Miller	Seats (Total: 50)
	Meets May 31, 2022 - July 22, 2022	
	MTuWThF 12:30pm - 1:50pm	CSI 2107

CMSC460 **Computational Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (CMSC106, CMSC131); and minimum grade of C- in MATH246. Cross-listed with: AMSC460. Credit only granted for: AMSC460, AMSC466, CMSC460, or CMSC466.

Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences.

WB11	Stefan Doboszczak **Meets May 31, 2022 - July 8, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 30) ONLINE
WB21	Christopher Moakler **Meets July 11, 2022 - August 19, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 20) ONLINE

CMSC488A **Special Topics in Computer Science; Quantum Boot Camp**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science.

Prerequisites: MATH141 and either MATH240 or PHYS274; or equivalent course work. Cross-listed with PHYS499F, CHPH499F, and ENEE489F. Credit granted for PHYS499F, CMSC488A, CHPH499F, or ENEE489F. Designed for computer science, engineering and mathematics majors. Introduces basic concepts and techniques widely used in quantum information science.

0501	Charles Clark **Meets June 21, 2022 - July 8, 2022** TuTh 10:00am - 12:30pm	Seats (Total: 38) ATL 3100A

CMSC498A **Selected Topics in Computer Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Contact department for information to register for this course.

CMSC499A **Independent Undergraduate Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Students are provided with an opportunity to participate in a computer science research project under the guidance of a faculty advisor. Format varies. Students and supervising faculty member will agree to a research plan which must be approved by the department. As part of each research plan, students should produce a final paper delineating their contribution to the field.

Contact department for information to register for this course.

CMSC798 **Master's Non-Thesis Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

CMSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

CMSC898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Advanced topics selected by the faculty from the literature of applications of computer science to suit the interest and background of students.

Contact department for information to register for this course.

CMSC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

COMM Communication Summer 2022

COMM107 **Oral Communication: Principles and Practices**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285.

A study of and practice in oral communication, including principles of interviewing, group discussion, listening, informative briefings, and persuasive speeches.

WB11	Faith Otchere **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Shilin Xia **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE

WB13	Miriam Komuhendo **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	Tatenda Mashanda **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB22	Viktoriia Savchuk **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB23	Delight Agboada **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE

COMM130 **Professional Communication and Writing**

Credits: 1 Grading Method: Regular, Pass-Fail

Restriction: Must be in the Communication major.

Designed to enhance the clarity and grace of students' writing. Students will acquire knowledge of writing based on principles of style and grammar as well as argument and organizational structure across a diversity of professional writing contexts. Students will also engage in peer review of one another's writing.

WB21	Skye De Saint Felix **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 50) ONLINE

COMM200 **Critical Thinking and Speaking**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130, OR THET285.

Theory and practice of persuasive discourse analysis and composition. Research techniques, logical and rhetorical conceptions of argument, and technical principles for persuading in public venues.

WB11	Megu Itoh	Seats (Total: 19)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

COMM200X **Critical Thinking and Speaking**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130, OR THET285.

Theory and practice of persuasive discourse analysis and composition. Research techniques, logical and rhetorical conceptions of argument, and technical principles for persuading in public venues.

Contact department for information to register for this course.

COMM201 **Introduction to Public Relations**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in COMM130. Restriction: Must be in the Communication major.

Basic concepts and principles of public relations. Roles in organizations and society; history; skills and practices of public relations; theories and models of effective and ethical public relations.

WB21	Erich Sommerfeldt	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Restriction: Restricted to COMM majors only.	

COMM250 **Introduction to Communication Inquiry**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

An introduction to the field of communication. Definitions, models, and contexts of communication; rhetorical theory and rhetorical criticism of discourse.

WB11	Raphael Mazzone	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

COMM288 **Communication Internship**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

An individual experience arranged by the student with the instructor. Does not satisfy communication major requirements. 45 hours of supervised internship per credit hour with communication professional. Not a substitute for COMM386.

I101	Julie Gowin **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 50)
I102	Julie Gowin **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 75)
I201	Julie Gowin **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 50)

COMM301 **Rhetorical Theories**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM130, COMM250; and one course from STAT100, BMGT230, EDMS451, CCJS200, PSYC200, or SOCY201; and one course from COMM107, COMM200, or COMM230; and must have completed or be concurrently enrolled in COMM304. Restriction: Must be in the Communication major. Credit only granted for: COMM301 or COMM401.

Explores the idea of rhetoric, from antiquity to digitality. Rhetoric, as an art of moving bodies, is central to democratic self-governance: only through persuading each other can we develop a shared vision of a just and desirable future. This course tracks the genesis of rhetorical theory in the ancient world, 20th-century struggles against fascist rhetoric, and contemporary extensions of rhetoric in digital media ecologies.

Restriction: Restricted to COMM majors only.

WB11	Janna Soeder **Meets May 31, 2022 - July 8, 2022** M 9:00am - 12:20pm Class time/details on ELMs	Seats (Total: 35) ONLINE ONLINE

COMM307 **Quantitative Methods in Communication**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM130 and COMM304. Restriction: Must be in the Communication major. Credit only granted for: COMM400 or COMM307. Formerly: COMM400.

Designed to introduce students to the basics of quantitative communication research methods. As such, it covers the basic principles of scientific inquiry, the process for generating research questions and hypotheses, the concept of variables, sampling methods, research designs, basics of data analyses, as well as ethics in scientific research. This course prepares students to become informed consumers of quantitative communication research.

WB11	Haejung Shin	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

COMM324 **Communication and Gender**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DSHU, DVUP

Explores how communication shapes constructions of gender, sex, sexuality and other identity markers. Topics include issues of oppression, identity, and power and social, political, and economic situations and examines how these issues impact our daily lives.

WB11	Elizabeth Phipps	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
WB21	Ari Perez Montes	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

COMM330 **Argumentation and Public Policy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Contemporary theories of argumentation with special emphasis on methods of formulating and critiquing public policy argument.

WB11	Divine Aboagye	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	TuTh 9:00am - 12:20pm	ONLINE

WB21	Jade Olson	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

COMM331 **News Writing and Reporting for Public Relations**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM130 and COMM201. Restriction: Must be in Communication program; and (sophomore standing; or junior standing). Credit only granted for: JOUR201, COMM231, or COMM331. Formerly: COMM231.

Writing and researching news and information media for public relations; laboratory in news-gathering tools and writing techniques for public relations.

WB11	Jeannette Iannacone	Seats (Total: 18)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

COMM360 **The Rhetoric of Black America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

An historical-critical survey of the rhetoric of Black Americans from the colonial period to the present.

WB11	Darrian Carroll	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	TuTh 1:00pm - 4:20pm	ONLINE
	This course will be accessible for asynchronous learners.	

COMM369B **Special Topics in Study Abroad III; British Documentary Tradition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

COMM369D **Special Topics in Study Abroad III; Digital Media in London**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

COMM369O **Special Topics in Study Abroad III; Organizational Communication in Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

COMM371 **Communication and Digital Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Communication program.

A basic introduction to communication in the digital age. Through class lectures, assignments and projects, students will learn to effectively use new media for the purpose of strategic message creation and management used in the field of communication. Students will apply the basics of visual layout skills and the principles of visual design to create messages using words and images.

WB11	Jaclyn Bruner	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

COMM382 **Essentials of Intercultural Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVCC

Credit only granted for: COMM382 or COMM482.

Introduction of major theories and concepts of intercultural communication; examination of processes that make up cultural differences; and use of intercultural communication competence skills.

WB21	Umisha Kc	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

COMM386 **Experiential Learning**

(Perm req) Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Prerequisite: Permission of ARHU-Communication department. Restriction: Junior standing or higher; and must be in Communication program.

Supervised internship experience with communication professionals. Relation of academic training to professional experience.

I101	Julie Gowin **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 75)
I102	Julie Gowin **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 75)
I1Z1	Leah Waks **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details. *Restricted to COMM majors at Shady Grove.*	Seats (Total: 10)
I1Z2	Raimonda Nuredini **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details. *Restricted to COMM majors at Shady Grove.*	Seats (Total: 10)
I1Z3	Raimonda Nuredini **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details. *Restricted to COMM majors at Shady Grove.*	Seats (Total: 10)
I202	Julie Gowin **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 75)
I2Z1	Leah Waks **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details. *Restricted to COMM majors at Shady Grove.*	Seats (Total: 10)

I2Z2	Raimonda Nuredini	Seats (Total: 10)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	
	Restricted to COMM majors at Shady Grove.	

COMM388 **Communication Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Supervised professional-level practice in communication.

Contact department for information to register for this course.

COMM399 **Honors Thesis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

COMM426 **Conflict Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: COMM425 and COMM250.

Role of communication in managing conflict processes.

WB21	Lauren Edelstein	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	W 1:00pm - 4:20pm	ONLINE
	Class time/details on ELMs	ONLINE

COMM449B **Special Topics in Digital Communication; Communication and Social Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Explores the topics that have arisen around computers, digital technologies, the internet, big data, surveillance capitalism, and network infrastructures.

This course will explore the connections between communication and social media. Students will explore not only the business ?or industry side of digital communication, but also the interpersonal and collaborative side important for inhabiting and contributing to continually evolving digital spaces of all sizes. Students can expect a hands-on, project-based approach that covers topics such as social media ethics, advocacy, management, and above all, social media communication.

WB21	Jeremy Grossman	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

COMM482 **Intercultural Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

The major variables of communication in an intercultural context: cultural, racial and national differences; stereotypes; values; cultural assumptions; and verbal and nonverbal channels.

Contact department for information to register for this course.

COMM488I **Communication Portfolio Project; Strategic Interviewing for the Career You Want**

Credits: 1 Grading Method: Regular

Preparation of the professional communication portfolio.

This course introduces students to advanced techniques in interviewing for job opportunities and career progression. This online course focuses on the dynamics of the interview process, the communication theories and best practices behind influence and persuasion, and the communication aptitudes and skills that distinguish top candidates.

WB11	Victoria McDermott	Seats (Total: 50)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

COMM489 **Topical Research; Topical Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individualized research projects conducted with a faculty sponsor.

Contact department for information to register for this course.

COMM619B **Consecutive Interpretation; Arabic into English/English into Arabic**

Credits: 1 Grading Method: Regular, Audit

Builds upon the systematic, reflective approach to interpreting in real-world settings introduced in Fundamentals of Interpreting. Consecutive interpreting skills are consolidated through individual and group practice, and any remaining challenges related to consecutive interpreting sub-skills are identified and addressed. Stresses effective analysis, note-taking, and use of voice during exercises in sight translation, dialogue, and formal consecutive interpreting.

Must be in Graduate Studies in Interpreting and Translation or a graduate student in a Semester Academic Calendar program.

XGE1	Nina Behrens, Yana Carver	Seats (Total: 4)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

COMM649 **Translation for Specific Domains**

Credits: 4 Grading Method: Regular, Audit

Builds upon the systematic, reflective approach introduced in Fundamentals of Translation by addressing the development of translation skills required for specialization in specific domains. In written and sight translation exercises include researching specialized subject material, developing and maintaining terminology, and consulting experts in the field. Includes authentic, real-world translation projects in translation teams. Overview of computer-assisted translation tools and continued work on sight translation enable higher levels of productivity under time constraints.

Must be in Graduate Studies in Interpreting and Translation or a graduate student in a Semester Academic Calendar program.

PG01	Yana Carver	Seats (Total: 4)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

COMM649A **Translation for Specific Domains; Methodology**

Credits: 1 Grading Method: Regular, Audit

Builds upon the systematic, reflective approach introduced in Fundamentals of Translation by addressing the development of translation skills required for specialization in specific domains. In written and sight translation exercises include researching specialized subject material, developing and maintaining terminology, and consulting experts in the field. Includes authentic, real-world translation projects in translation teams. Overview of computer-assisted translation tools and continued work on sight translation enable higher levels of productivity under time constraints.

Must be in Graduate Studies in Interpreting and Translation or a graduate student in a Semester Academic Calendar program.

XG01	Eva Vilarrubi	Seats (Total: 4)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

COMM649M **Translation for Specific Domains; Spanish into English/English into Spanish**

Credits: 1 Grading Method: Regular, Audit

Builds upon the systematic, reflective approach introduced in Fundamentals of Translation by addressing the development of translation skills required for specialization in specific domains. In written and sight translation exercises include researching specialized subject material, developing and maintaining terminology, and consulting experts in the field. Includes authentic, real-world translation projects in translation teams. Overview of computer-assisted translation tools and continued work on sight translation enable higher levels of productivity under time constraints.

Must be in Graduate Studies in Interpreting and Translation or a graduate student in a Semester Academic Calendar program.

XGE1	Eva Vilarrubi **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs *English into Spanish*	Seats (Total: 4) ONLINE
XGS1	Joseph Mazza **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs *Spanish into English*	Seats (Total: 4) ONLINE

COMM649N **Translation for Specific Domains; Spanish into English/English into Spanish**

Credits: 1 Grading Method: Regular, Audit

Builds upon the systematic, reflective approach introduced in Fundamentals of Translation by addressing the development of translation skills required for specialization in specific domains. In written and sight translation exercises include researching specialized subject material, developing and maintaining terminology, and consulting experts in the field. Includes authentic, real-world translation projects in translation teams. Overview of computer-assisted translation tools and continued work on sight translation enable higher levels of productivity under time constraints.

Must be in Graduate Studies in Interpreting and Translation or a graduate student in a Semester Academic Calendar program.

XGE1	Rosalinda Meza-Steel **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs *English into Spanish*	Seats (Total: 4) ONLINE

XGS1	Rosalinda Meza-Steel	Seats (Total: 4)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Spanish into English	

COMM798 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

Contact department for information to register for this course.

COMM798F **Independent Study; English Fluency**

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

0101	Shawn Parry-Giles, Mollie Kaufer	Seats (Total: 15)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

COMM798G **Independent Study; Editing in English Writing**

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

0101	Shawn Parry-Giles, Mollie Kaufer	Seats (Total: 15)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

COMM798I **Independent Study; Consecutive Interpreting Skills**

Credits: 1 Grading Method: Regular, Audit, Sat-Fail

An individual course designed for intensive study or research of problems in communication.

Must be in Graduate Studies in Interpreting and Translation or a graduate student in a Semester Academic Calendar program.

PG01	Nina Behrens, Yana Carver	Seats (Total: 4)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

COMM799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

COMM898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

COMM899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

CPSP College Park Scholars Program Summer 2022

CPSP339P **Advanced Practicum: Internship**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Independent study designed for students who wish to extend in greater depth and detail projects begun in sophomore year. Subject varies. Overseen by faculty director or mentor.

I101	Kelly Brower	Seats (Total: 10)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

CPSP379K **Advanced Practicum: Study Abroad; London: Cultural Capital**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced, supervised study-abroad experience.

Contact department for information to register for this course.

CPSP388T **Advanced Special Topics in College Park Scholars; Conservation and Indigenous People**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Interdisciplinary topics of special interest to College Park Scholars, such as legacies of the cold war, environmental ethics, women in leadership, and other timely issues. Projects build on previous work in College Park Scholars.

Contact department for information to register for this course.

DANC Dance Summer 2022

DANC200 **Introduction to Dance**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA, D | General Education: DSSP

A study of dance as a form of communication and as an art form; a survey of the theories and styles of dance, and their relationships to other art forms.

WB11	Mary Ford	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	MTuW 10:00am - 12:15pm	ONLINE

DANC698 **Independent Study in Dance**

Credits: 1-3 | Grading Method: Regular, Audit

Directed independent study in theoretical topics.

I201	Crystal Davis	Seats (Total: 1)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

DATA Data Science and Analytics Summer 2022

DATA612 **Deep Learning**

Credits: 3 | Grading Method: Regular

Prerequisite: DATA603 or MSML603. Cross-listed with: MSML612. Credit only granted for: DATA612 or MSML612.

Provides an introduction to the construction and use of deep neural networks: models that are composed of several layers of nonlinear processing. The class will focus on the main features in deep neural nets structures. Specific topics include backpropagation and its importance to reduce the computational cost of the training of the neural nets, various coding tools available and how they use parallelization, and convolutional neural networks. Additional topics may include autoencoders, variational autoencoders, convolutional neural networks, recurrent and recursive neural networks, generative adversarial networks, and attention-based models. The concepts introduced will be illustrated by examples of applications chosen among various classification/clustering questions, computer vision, natural language processing.

PCS1	Samet Ayhan	Seats (Total: 50)
	Meets May 31, 2022 - August 19, 2022	
	Th 6:00pm - 9:30pm	ESJ B0320
	Must be in Graduate Programs in Science Academy.	

DATA698 **Research Methods and Study Design**

Credits: 3 Grading Method: Regular

Expected learning outcomes include that students should be able to: compose problem specifications relevant to work environment, create project descriptions, determine data and resource requirements, propose appropriate methods analytical methods, construct research plans; determine reporting requirements appropriate to various employment situations, identify intended audiences and uses, propose supporting documentation, and possibly other outcomes. Includes ethical and legal considerations in data science. Intended to be penultimate course, though course may be taken concurrently with other courses.

PWS1	Michael Cummings	Seats (Total: 50)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Data Science and Analytics.	

ECON Economics Summer 2022

ECON200 **Principles of Microeconomics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Prerequisite: MATH107 or MATH110; or must have math eligibility of MATH113 or higher. Credit only granted for: ECON200, AREC240, or AREC250. Additional information: It is recommended that students complete ECON200 before taking ECON201.

Introduces economic models used to analyze economic behavior by individuals and firms and consequent market outcomes. Applies conceptual analysis to several policy issues and surveys a variety of specific topics within the broad scope of microeconomics.

WB11	Kartikeya Batra **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 60) ONLINE
WB21	Sebastian Montano Correa **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs MW 5:30pm - 7:00pm	Seats (Total: 60) ONLINE ONLINE

ECON201 **Principles of Macroeconomics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Prerequisite: MATH107 or MATH110; or must have math eligibility of MATH113 or higher. Recommended: ECON200. Credit only granted for: ECON201 or ECON205.

An introduction to how market economies behave at the aggregate level. The determination of national income/output and the problems of unemployment inflation, will be examined, along with monetary and fiscal policy.

WB11	Michael Navarrete **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 60) ONLINE
WB21	Cesar Vasquez Chacon **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 60) ONLINE

ECON305 **Intermediate Macroeconomic Theory and Policy**

Credits: 3 | Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in ECON201 and ECON200. And 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140); or must have completed MATH220 with a minimum grade of C-. Credit only granted for: ECON305 or ECON325.

Analysis of the determination of national income, employment, and price levels. Discussion of consumption, investment, inflation, and government fiscal and monetary policy.

WB11	Siqin Ding	Seats (Total: 50)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
WB21	Kanat Isakov	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ECON306 **Intermediate Microeconomic Theory & Policy**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: 1 course with a minimum grade of C- from (ECON200, AREC250); and minimum grade of C- in ECON201. And 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140); or must have completed MATH220 with a minimum grade of C-. Credit only granted for: ECON306, ECON326, AREC489M, or AREC326.

Analysis of the theories of consumer behavior, producer behavior, different market structures, and various sources of inefficient outcomes. Analysis of microeconomic policies designed to improve market outcomes.

WB11	Yu Yaow	Seats (Total: 50)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs MTuW 5:00pm - 7:00pm	ONLINE ONLINE
WB21	Mengyi Zhong	Seats (Total: 60)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ECON315 **Economic Development of Underdeveloped Areas**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Credit only granted for: ECON315 or ECON416.

Analysis of the economic and social characteristics of underdeveloped areas. Recent theories of economic development, obstacles to development, policies and planning for development.

WB11	Tereza Varejkova	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs TuTh 6:00pm - 9:00pm	ONLINE ONLINE

ECON325 **Intermediate Macroeconomic Analysis**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201; and minimum grade of C- in ECON300 or (MATH241 and any statistics course). Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON305 or ECON325.

Analysis of macroeconomic behavior and policy with emphasis on theoretical rigor. Topics include the determinants of economic growth, unemployment, inflation, and international economic flows.

WB11	Arseniy Braslavskiy	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs MW 5:30pm - 7:00pm	ONLINE ONLINE

ECON326 **Intermediate Microeconomic Analysis**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201; and minimum grade of C- in ECON300 or (MATH241 and any statistics course). Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON306, ECON326, or AREC326.

Analysis of economic decision-making by individuals and firms, the resulting market outcomes, and applications to real-world problems. Emphasis on analytical logic and theoretical rigor. Topics covered include consumer preferences and utility maximization, perfect competition and market power, uncertainty and risk, externalities, and asymmetric information.

WB21	Keaton Ellis	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs TuTh 5:00pm - 6:15pm	ONLINE ONLINE

ECON327 **Behavioral Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Restriction: Must be in Economics Bachelor of Arts program.

Integrating the insights of psychology into economics. Analysis of the ways in which individuals make decisions that systematically depart from the so-called "standard model" of homo economicus, which assumes perfect rationality, perfect selfishness, and perfect willpower. Investigating the implications of the major findings of behavioral economics for policymakers.

WB21	Elif Osun	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	MW 6:00pm - 9:00pm	ONLINE

ECON330 **Money and Banking**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201.

The structure of financial institutions and their role in the provision of money and near money. Analysis of the Federal Reserve System, the techniques of central banks, and the control of supply of financial assets in stabilization policy. Relationship of money and credit to economic activity and the price level.

WB21	Manuel Molina Soto	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	MW 5:00pm - 6:30pm	ONLINE

ECON340 **International Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Credit only granted for: ECON340 or ECON441.

Introduces economic models of international trade and finance. Analyzes policies designed to promote and restrict international trade and to manage exchange rates and impact international capital flows.

Contact department for information to register for this course.

ECON386 **Experiential Learning**

(Perm req)

Credits: 3 Grading Method: Sat-Fail

Prerequisite: ECON201 and ECON200. Restriction: Permission of BSOS-Economics department; and must be in a major within the BSOS-Economics department; and minimum cumulative GPA of 2.5; and junior standing or higher.

See Department Advising Office for course eligibility, course requirements, and application information.

Student and internship eligibility requirements, along with the ECON386 application, can be found at: http://ter.ps/ECON386.

Contact department for information to register for this course.

ECON399 **Independent Study in Economics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Integrated readings and independent study under direction and supervision of a faculty member. Contact department for additional information.

Prerequisite: six hours of upper division economics courses.

Contact department for information to register for this course.

ECON414 **Game Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321, STAT400). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science). Credit only granted for: CMSC474, ECON414, GVPT399A or GVPT390.

Studies the competitive and cooperative behavior that results when several parties find that their individual outcomes are jointly determined. Students will learn how to use game theory to analyze situations of potential conflict. Applications are drawn from economics, business, and political science.

WB11	Sarah Webb **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs TuTh 5:30pm - 7:00pm	Seats (Total: 30) ONLINE ONLINE
WB21	Jared Abramson **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs TuTh 5:30pm - 7:00pm	Seats (Total: 35) ONLINE ONLINE

ECON422 **Econometrics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON325, ECON326); and 1 course with a minimum grade of C- from (ECON321, STAT401). Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON422, ECON424, or AREC422.

Emphasizes the interaction between economic problems and the assumptions employed in statistical theory. Formulation, estimation, and testing of economic models, including single variable and multiple variable regression techniques, theory of identification, and issues relating to inference.

WB11	Jaehong Choi	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs Th 7:00pm - 9:00pm	ONLINE ONLINE

ECON424 **Applied Econometrics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON306, ECON325, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: ECON422, ECON424 or AREC422.

Provide the knowledge and skills necessary to accomplish and utilize basic applied econometric analysis utilized by many business service providers, government agencies, and nonprofits engaged in policy analysis. Topics include simple and multiple regressions using cross section, time series, and panel data, issues of heteroskedasticity, serial correlation, and multicollinearity, models with binary dependent variable, and program evaluation. Course emphasizes application of knowledge using software packages but still covers essential theoretical background.

WB21	Maria Riquelme Gajardo	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs TuTh 5:30pm - 7:00pm	ONLINE ONLINE

ECON426 **Economics of Cost-Benefit Analysis**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON306, ECON325, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Study of how to use cost benefit analysis and other similar tools of applied microeconomics to conduct policy analyses. Cost-benefit analysis is an empirical method of identifying an optimal choice from a set of policy alternatives, where optimal is defined in terms of economic efficiency. Real world examples are addressed, so that students understand limitations of the methods and also interactions of economic analysis with political and administrative processes.

WB11	Alejandra Montoya Agudelo	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	TuW 7:00pm - 9:00pm	ONLINE

ECON454 **Public Finance and Public Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, STAT400, ECON321). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science).

The role of the the public sector in a market economy constitutes the over-arching topic of this course. Emphasis lies on analyzing government expenditure programs and the microeconomics of tax policy.

WB21	Taylor Landon	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	MW 5:30pm - 8:00pm	ONLINE

ECON455 **Economics of Education Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: ECON468E or ECON455. Formerly: ECON468E.

Examines the role that government plays in providing and financing education. Analyzes why people invest in education. Considers the effects of education on long-term social and economic outcomes, the behavior of institutions that produce education, and how to design and implement public policies affecting the level and distribution of educational resources. Uses microeconomic models and empirical findings to analyze current issues in education policy.

WB11	Lea Rendell	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs TuTh 5:00pm - 6:30pm	ONLINE ONLINE

ECON456 **Law and Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Relationship of the exchange process to the system of institutions and rules that society develops to carry out economic transactions. Topics covered include: Property rights; torts, negligence, and liability; contracts and exchanges; criminal control and enforcement; equity and efficiency issues .

WB21	Shanglyu Deng	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs Th 7:00pm - 9:00pm	ONLINE ONLINE

ECON470 **Labor Economics: Theory and Evidence**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, STAT400, ECON321). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science). Credit only granted for: ECON470 or ECON471.

Analysis of labor markets in theory and the real world. Topics include labor supply, labor demand, human capital, performance incentives, unemployment, discrimination, and immigration. Students will develop an understanding of how formal economic research is used to analyze U.S. labor markets and how research influences policy debates.

WB11	The Nguyen	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs MW 5:30pm - 7:00pm	ONLINE ONLINE

ECON642 **Topics in Applied Macroeconomics**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in M.Prof.Studies: Applied Economics program; or permission of BSOS-Economics department.

Focus is on applied macroeconomic models used by federal agencies to explain and predict economic behavior. Course emphasizes macroeconomic data: NIPA accounts, GDP, construction and application of CPI, labor force data and economic indicators. Students will also study a selected set of current macroeconomic topics including models of economic growth, economic fluctuations, monetary policy, inflation and financial markets.

PR01	Arto Kovanen	Seats (Total: 20)	
	Meets May 31, 2022 - August 19, 2022		
	Tu 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact straub@umd.edu for permission. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		
PREM	Arto Kovanen	Seats (Total: 3)	
	Meets May 31, 2022 - August 19, 2022		
	Tu 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Part of the Graduate Programs in Applied Economics, WDC. For permission to enroll, contact straub@umd.edu. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		

ECON644 **Empirical Analysis II: Introduction to Economic Models**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ECON643.

An introduction to econometric methods with applications to public policy analysis. Primary focus on application and interpretation of multiple regression analysis.

PR01	Hossein Abbasi	Seats (Total: 20)	
	Meets May 31, 2022 - August 19, 2022		
	W 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact straub@umd.edu for permission. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		
PREM	Hossein Abbasi	Seats (Total: 3)	
	Meets May 31, 2022 - August 19, 2022		
	W 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Part of the Graduate Programs in Applied Economics, WDC. For permission to enroll, contact straub@umd.edu. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		

ECON671 **Economics of Health Care**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON645. Credit only granted for: ECON671 or ECON565. Formerly: ECON565.

An examination of the structure, conduct and performance of the health care market, including a study of physician services, the pharmaceutical industry, the hospital market and health insurance. Extensive use of quantitative and analytic economic tools with special emphasis on regulatory response to market imperfections.

PR01	Samuel Kleiner	Seats (Total: 20)	
	Meets May 31, 2022 - August 19, 2022		
	Th 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact straub@umd.edu for permission. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		
PREM	Samuel Kleiner	Seats (Total: 3)	
	Meets May 31, 2022 - August 19, 2022		
	Th 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Part of the Graduate Programs in Applied Economics, WDC. For permission to enroll, contact straub@umd.edu. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		

ECON672 **Program Analysis and Evaluation**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641 and ECON645.

Students study the tools used to evaluate the effectiveness of public policies. All evaluations have weaknesses, and some have more weaknesses than others. You will learn how to distinguish high from low quality evaluations. We will discuss the basic economics and econometrics of program evaluation, focusing on the application of methods used for causal inference and cost-benefit analyses in public policy contexts. We will examine published evaluation research with the intent of showing how the research does or does not lead to clear conclusions regarding program performance.

PR01	Samuel Rowe	Seats (Total: 20)	
	Meets May 31, 2022 - August 19, 2022		
	Th 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact straub@umd.edu for permission. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		
PREM	Samuel Rowe	Seats (Total: 3)	
	Meets May 31, 2022 - August 19, 2022		
	Th 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Part of the Graduate Programs in Applied Economics, WDC. For permission to enroll, contact straub@umd.edu. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		

ECON677 **International Trade and Applications**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641 and ECON644. Restriction: Must be in MS Applied Economics program; or with permission from the program director.

A mix of theory and empirical work. Students will analyze the causes and consequences of international trade. The course will cover a set of conceptual tools that are useful for understanding "globalization" and the usage of these tools to address interesting and important questions about how countries, firms, and workers respond to international trade.

PR01	Maksim Belenkiy	Seats (Total: 20)	
	Meets May 31, 2022 - August 19, 2022		
	W 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact straub@umd.edu for permission. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		
PREM	Maksim Belenkiy	Seats (Total: 3)	
	Meets May 31, 2022 - August 19, 2022		
	W 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Part of the Graduate Programs in Applied Economics, WDC. For permission to enroll, contact straub@umd.edu. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		

ECON684 **Applied Time Series Analysis and Forecasting**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Prerequisite: ECON642; and ECON645. Restriction: Must be in M.Prof.Studies: Applied Economics program.

This course builds on the brief introduction to time series econometrics offered in ECON 645. Students will learn the theory of stationary processes and how it applies to econometric techniques for estimation and forecasting based on time series data. The techniques will be applied in macroeconomic, financial and business applications.

PR01	Diego Vilan	Seats (Total: 20)	
	Meets May 31, 2022 - August 19, 2022		
	Tu 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact straub@umd.edu for permission. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		
PREM	Diego Vilan	Seats (Total: 3)	
	Meets May 31, 2022 - August 19, 2022		
	Tu 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Part of the Graduate Programs in Applied Economics, WDC. For permission to enroll, contact straub@umd.edu. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		

ECON698 **Selected Topics in Economics**

Credits: 3 Grading Method: Regular, Audit

0142	John Shea	Seats (Total: 10)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

ECON799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ECON898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ECON899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

EDCP Education Counseling and Personnel Services Summer 2022

EDCP108E College and Career Advancement: Concepts and Skills

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

Restricted to Academic Achievement Program Students.

CP02	Sharon Vanwright	Seats (Total: 130)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

EDCP230 The Science and Practice of Happiness and Psychological Well-Being

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSHS, DSSP

An introduction to theory and research on positive psychology, subjective well-being, and the psychology of happiness. This will include examination of hedonic and eudaimonic models of well-being and sociocultural understandings of happiness, together with how it relates to health, relationships, money, religion, work, and social media. Students will also explore common misconceptions and myths about happiness and well-being and will engage in a variety of activities designed to deepen their understanding of happiness in their own lives and broader societal trends related to well-being.

WB11	Amber Pasha, Hailey Fleece, Shihong Lin	Seats (Total: 15)
	Meets May 31, 2022 - July 8, 2022	
	MW 9:00am - 11:00am	ONLINE
	Class time/details on ELMs	ONLINE

EDCP298Z Special Problems in Counseling and Personnel Services; British Life and Society in a Cross-Cultural Context

Credits: 3 Grading Method: Regular, Pass-Fail

Individual instruction in special problems related to counseling, student leadership, and college student development.

Contact department for information to register for this course.

EDCP386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department; and sophomore standing or higher.

Contact department for information to register for this course.

EDCP498 **Special Problems in Counseling and Personnel Services**

Credits: 1-3 Grading Method: Regular

Available only to major students who have formal plans for individual study of approved problems.

Contact department for information to register for this course.

EDCP611 **Career Development Theory and Programs**

Credits: 3 Grading Method: Regular, Audit

Research and theory related to career and educational decisions; programs of related information and other activities in career decision.

0301	Marja Humphrey	Seats (Total: 20)
	Meets May 31, 2022 - June 17, 2022	
	TuWTh 10:00am - 2:30pm	ASY 3215

EDCP632 **Cognitive Assessment**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Restriction: Must be in the School Psychology program; or permission of EDUC-Counseling, Higher Education and Special Education department.

Assessment of cognitive functioning of children and adolescents in reference to school learning and behavior problems. Administering, scoring and interpreting cognitive assessment instruments commonly used in school systems.

0201	Megan Vaganek	Seats (Total: 9)
	Meets July 11, 2022 - August 19, 2022	
	MTh 1:00pm - 4:30pm	ASY 3211

EDCP635 **School Consultation I**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the School Counseling program; or must be in the School Psychology program; or permission of instructor.

Theory and practice of consultation services in the school setting. Understanding of school culture. Introduction to problem solving model of case consultation for assessment and remediation of learning and behavior problems in the classroom. Practicum experience.

0501	Ileana Gonzalez	Seats (Total: 20)
	Meets June 21, 2022 - July 8, 2022	
	TuWTh 10:00am - 2:30pm	ASY 3219

EDCP717 Evaluation of Research in Counseling

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Research on process and outcome in counseling. A review of research and appropriate research methodologies.

0201	Cixin Wang	Seats (Total: 10)
	Meets July 11, 2022 - August 19, 2022	
	MW 9:15am - 12:45pm	ASY 3217
	Class time/details on ELMs	ONLINE

EDCP789 Advanced Topics in Counseling and Personnel Services

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

EDCP789R Advanced Topics in Counseling and Personnel Services; College Teaching Seminar

Credits: 1-3 Grading Method: Regular

0101	Emily Cygrymus	Seats (Total: 15)
	Meets May 31, 2022 - July 8, 2022	
	MW 1:30pm - 4:30pm	ASY 3217

EDCP798 Special Problems in Counseling and Personnel Services

(Perm req)

Credits: 1-6

Grading Method: Regular, Audit

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

Contact department for information to register for this course.

EDCP798G **Special Problems in Counseling and Personnel Services; Racial Equity Research and Data Analysis**

(Perm req)

Credits: 3

Grading Method: Regular, Audit, Sat-Fail

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

WB31	Julie Park	Seats (Total: 6)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

EDCP799 **Master's Thesis Research**

Credits: 1-6

Grading Method: Sat-Fail

Registration required to the extent of six hours for Master's thesis.

Contact department for information to register for this course.

EDCP888 **Apprenticeship in Counseling and Personnel Services**

Credits: 1-8

Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

EDCP888A **Apprenticeship in Counseling and Personnel Services; College Student Personnel**

Credits: 3

Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Restricted to CSP students.

WB11	Kristan Skendall, Marsha Guenzler-Stevens **Meets May 31, 2022 - August 19, 2022** Tu 4:30pm - 7:15pm Class time/details on ELMs	Seats (Total: 16) ONLINE ONLINE	 Lab

EDCP889 **Internship in Counseling and Personnel Services**

Credits: 1-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDCP889C **Internship in Counseling and Personnel Services**

(Perm req)

Credits: 1-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

I101	Jioni Lewis **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
I201	Jioni Lewis **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

EDCP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDCP899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Registration required to the extent of 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDHD Education, Human Development Summer 2022

EDHD200 **Paradigms and Perspectives in Human Development**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must have 45 or fewer credits; or must be in the Human Development program or Human Development minor.

An introduction to the paradigms and perspectives that guide the study of human development across the lifespan in cognitive, social, physical and emotional domains. Topics of study include overlying principles, concepts, assumptions, theoretical frameworks, and research methods that influence ways in which development is conceptualized. The course is designed to provide insight into major questions of the day in human development and how these prevailing perspectives have evolved over time. This course will also help students understand how knowledge of theory and research is translated into practice in a variety of professional settings.

WB11	Lucas Butler	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

EDHD230 **Human Development and Societal Institutions**

Credits: 3 Grading Method: Regular CORE: SB, D General Education: DSHS, DVUP

Development of the individual in the context of relationships with the formal and informal institutions of society. An examination of various aspects of development from the broad perspective of the social sciences.

WB21	Joshua Jaffe	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

EDHD231 **Inside 21st Century Creativity: How Creative Ideas, Concepts, and Products are Generated**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSHS, SCIS

Mechanisms of the creative mind. Psychological, social, sociological, developmental, cultural, educational, genetic and neural based roots of creativity.

WB41	Alexis Williams	Seats (Total: 30)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

EDHD306 **Research Methods in Human Development**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Addresses the scientific concepts and principles central to the study of human behavior and development. Students will learn about basic research methods in studying human behavior in developmental context and will participate in experiential activities, such as conducting observations and collecting self-report data. Major themes: goals of developmental research, fundamental research designs, types of measurement, elements of good scientific writing, and ethical issues in the study of human development.

WB21	Eric Schoute	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

EDHD310 **Your Brain on Education: The Neuroscience of Learning and Development**

Credits: 3 | Grading Method: Regular | General Education: DSHS, SCIS

Prerequisite: PSYC100.

Investigation linking research in the brain science of learning and development, including the neural basis of academic skills, to achievement, disability, and broader applications to classroom learning. This course will focus on areas of education including language (spoken and written), conceptual change, numerical/quantitative processing, and social cognition as well as burgeoning areas of neuroscientific research in general cognitive processes such as attention, memory, and executive processing. These topics will be discussed with respect to typical and atypical development with some focus on developmental disabilities including autism, specific language impairment, reading and math impairment, and attention deficit disorders among others. This course will focus on both the theoretical perspectives and pragmatic issues of how evidence regarding brain development can or may be translated into useful or misleading information for educators, professionals, and parents/guardians of our children.

WB31	Donald Bolger	Seats (Total: 30)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

EDHD320 **Human Development Through the Life Span**

Credits: 3 | Grading Method: Regular, Audit | General Education: DSHS

Central concepts related to parameters of human development, individual and social, which arise throughout the life span. Continuity and change within the developing individual.

WB11	Rachel Ghosh	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

EDHD400 **Introduction to Gerontology**

Credits: 3 | Grading Method: Regular, Audit | General Education: DSHS

Multidisciplinary survey of the processes of aging. Physiological changes, cultural forces, and self-processes that bear on quality of life in later years. Field study of programs, institutions for elderly, individual elders, their families and care providers.

WB11	Megan Hurley	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

EDHD411 **Child Growth and Development**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Theoretical approaches to and empirical studies of physical, psychological and social development from conception to puberty. Implications for home, school and community.

WB21	Riley Sims	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

EDHD412 **Infant Development**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Infant development across domains, including perceptual, motor, cognitive, language, social and emotional functioning from pre-natal through third year of life.

WB11	Lauren Trakhman	Seats (Total: 30)
	Meets May 31, 2022 - June 24, 2022	
	Class time/details on ELMs	ONLINE

EDHD413 **Adolescent Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS

Adolescent development, including special problems encountered in contemporary culture. Observational component and individual case study.

Contact department for information to register for this course.

EDHD489 **Field Experiences in Human Development**

(Perm req)

Credits: 3-4 Grading Method: Regular

Planned field experience (internship or research-based activities) related to Human Development. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDHD498 **Special Problems in Education**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Available only to students who have definite plans for individual study of approved problems.

Contact department for information to register for this course.

EDHD662 **Research Methods in Education Settings**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Research methods associated with studying the development, achievement, and school adjustment of children and adolescents in educational settings, with an emphasis on quantitative methodologies.

XE01	Lauren Trakhman	Seats (Total: 14)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	This course is restricted to students enrolled in the off-campus M.Ed. in Human Development program.	

EDHD720 **Social Development and Socialization Processes**

Credits: 3

Grading Method: Regular, Audit, Sat-Fail

This course covers social development and socialization processes across the life-span. The course typically covers the following topics: parent-child relationships, peer relationships, moral development, social cognition, social competence, social motivation, self-regulation, and cultural influences on development. This is core doctoral course.

XE01	Lauren Trakhman	Seats (Total: 14)	
	Meets May 31, 2022 - July 8, 2022		
	MW 4:15pm - 7:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
	This course is restricted to students enrolled in the off-campus M.Ed. in Human Development program.		

EDHD798 **Laboratory in Human Development**

Credits: 1-6

Grading Method: Regular, Audit

Independent research supervised by an instructor in a research setting.

Contact department for information to register for this course.

EDHD799 **Master's Thesis Research**

Credits: 1-6

Grading Method: Sat-Fail

Registration required to the extent of six hours for master's thesis.

Contact department for information to register for this course.

EDHD888 **Apprenticeship in Human Development Research**

Credits: 1-8

Grading Method: Regular, Audit

Apprenticeship in Human Development research.

Contact department for information to register for this course.

EDHD889 **Practicum in Human Development**

Credits: 3-8

Grading Method: Regular, Audit

Field experience in applied human development at a professional level of competence in a particular role with appropriate supervision.

Contact department for information to register for this course.

EDHD898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDHD899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Registration required to 12-18 hours for a Ph.D. dissertation.

Contact department for information to register for this course.

EDHI Education Leadership, Higher Ed and International Ed Summer 2022

EDHI338P **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Germany: Propaganda and Graphic Design**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

Contact department for information to register for this course.

EDHI488A **Special Topics in Education Policy and Administration; Education for Global Peace**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

WB11	Amber Webb	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

EDHI488N **Special Topics in Education Policy and Administration; Innovation, Inclusion, and Disability Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI488V **Special Topics in Education Policy and Administration; Contemplative Education**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Jing Lin	Seats (Total: 20)	
	Meets June 6, 2022 - June 16, 2022		
	MWTh 4:00pm - 8:00pm	ASY 3207	
	Class time/details on ELMs	ONLINE	Lab

EDHI489 **Field Experiences in Education**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDHI672 **Modes of Inquiry in Education Research**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI672, EDPL672, or EDPS672. Formerly: EDPL672.

Introduction to modes of inquiry appropriate to research on issues and problems in education. Examination of qualitative, quantitative and mixed research methods and designs with a focus on related standards of quality.

This course contains a Blackboard/ELMS component.

WB41	Steven Klees	Seats (Total: 20)	
	Meets July 11, 2022 - July 29, 2022		
	MWTh 3:00pm - 7:15pm	ONLINE	

EDHI679 **Master's Seminar**

Credits: 3 Grading Method: Regular, Audit

Directed study for master's degree students writing seminar papers.

Contact department for information to register for this course.

EDHI681 **Education for Global Peace**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI681, EDPL681, or EDPS681. Formerly: EDPL681.

This course will examine how education can address the threats of violence and wars. It prepares students to teach about peace, nonviolence, and conflict resolution, and also to analyze and implement changes in school and society to contribute to peace and non-violence.

WB11	Amber Webb	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

EDHI689 **Practicum In Educational Administration and Supervision**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Promotes skill development in managerial, leadership and supervisory areas. Practicum is based on results of diagnostic instruments and an individual professional development plan.

Contact department for information to register for this course.

EDHI788 **Special Topics in Education Policy and Administration**

Credits: 1-3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI788N **Special Topics in Education Policy and Administration; Innovation, Inclusion, and Disability Justice**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI788T **Special Topics in Education Policy and Administration; International Education & Cultural Exchange: Policies & Practice Education**

Credits: 3

Grading Method: Regular, Audit, Sat-Fail

Special and intensive treatment of current topics and issues in education policy and administration.

International Education & Cultural Exchange will survey key aspects of international education exchange administration, policy, and practice. The course is designed to introduce students to various arenas of the international education field with an emphasis on the internationalization efforts of American universities, current trends in the field of international higher education exchange, and the university's role in academic diplomacy efforts. This semester the course will be offered in a Global Classrooms format that will allow students to engage with international scholars and practitioners through a guest speaker series. Guest speakers will provide students with insights into the varied ways international education work is carried out around the globe and expand students' international higher education networks. This is a Global Classrooms Connections class, developed in partnership with the Office of International Affairs (OIA) to provide opportunities for virtual, project-based, international collaboration.

WB61	Taylor Woodman	Seats (Total: 15)	
	Meets August 1, 2022 - August 19, 2022		
	MWTh 12:00pm - 1:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	

EDHI788V **Special Topics in Education Policy and Administration; Contemplative Education**

Credits: 3

Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Jing Lin	Seats (Total: 20)	
	Meets June 6, 2022 - June 16, 2022		
	MWTh 4:00pm - 8:00pm	ASY 3207	
	Class time/details on ELMs	ONLINE	Lab

EDHI788Z **Special Topics in Education Policy and Administration; International Education Project Management**

Credits: 3

Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

WB11	Mohammad Malik Sakil	Seats (Total: 20)	
	Meets June 1, 2022 - June 24, 2022		
	MWF 5:45pm - 8:45pm	ONLINE	
	Class time/details on ELMs	ONLINE	Lab

EDHI789 **Doctoral Practicum in Administration and Supervision**

Credits: 1-3 Grading Method: Sat-Fail

Experiential activities designed to enhance student skills. Based on Individual Professional Development Plan for each student.

0101	Sharon Fries-Britt **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0201	Sharon Fries-Britt **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

EDHI798 **Special Problems in Education**

Credits: 1-6 Grading Method: Regular, Audit

Master's, AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Contact department for information to register for this course.

EDHI888 **Apprenticeship in Education**

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

EDHI889 **Internship in Education**

Credits: 3-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDHI898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDHI899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDMS Measurement, Statistics, and Evaluation Summer 2022

EDMS451 **Introduction to Educational Statistics**

Credits: 3 Grading Method: Regular, Audit General Education: FSAR

Restriction: Sophomore standing or higher. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201.

Introduction to statistical reasoning; location and dispersion measures; computer applications; regression and correlation; formation of hypotheses tests; t-test; one-way analysis of variance; analysis of contingency tables.

WB11	Yi Feng	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

EDMS645 **Quantitative Research Methods I**

Credits: 3 Grading Method: Regular, Audit

Research design and statistical applications in educational research: data representation; descriptive statistics; estimation and hypothesis testing. Application of statistical computer packages is emphasized.

WB21	Mark Lachowicz	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

EDMS798 **Special Problems in Education**

Credits: 1-6 Grading Method: Regular, Audit

Master's, EDMS majors, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Contact department for information to register for this course.

EDMS799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Registration required to the extent of 6 credits.

Contact department for information to register for this course.

EDMS889 **Internship in Measurement and Statistics**

(Perm req)

Credits: 3-12 Grading Method: Regular

Provides internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDMS898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDMS899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Registration required to the extent of 12 credits.

Contact department for information to register for this course.

EDSP Education, Special Summer 2022

EDSP210 **Introduction to Special Education**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVUP

Restriction: Sophomore standing or lower. Credit only granted for: EDSP210, EDSP211 or EDSP470.

Characteristics and needs of individuals receiving special education and related services. Current issues and practices in special education.

WB11	Tori Page-Voth	Seats (Total: 25)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	

EDSP220 **Disability in Community: Access, Accommodation, and Adaptation**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSSP, DVCC

Examines the concept of disability in a variety of community settings. Drawing on classic and contemporary readings in psychology, sociology and special education, the course will couple conceptual and historical understanding of disability with first-hand service-learning experiences in the community. Students will develop a plan in several phases that encompasses principles of Universal Design for Living/Learning (UDL) to study and participate in community-based activities.

WB11	Katryna Andrusik	Seats (Total: 15)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	

EDSP376 **Fundamentals of Sign Language**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Receptive and expressive skills in American Sign Language. Examination of the causes of deafness, characteristics of deaf education, and aspects of the culture of the deaf community.

Contact department or instructor for details.

WB11	Elizabeth Martinez	Seats (Total: 30)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

EDSP470 **Introduction to Special Education**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVUP

Restriction: Must not have completed EDSP210. Credit only granted for: EDSP210, EDSP211 or EDSP470.

Designed to give an understanding of the needs of all types of exceptional children.

Open to all students except undergraduate special education majors

WB11	Tori Page-Voth	Seats (Total: 25)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	

EDSP476 **Communicating with Sign Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: EDSP376. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Intermediate level receptive/expressive skills in American Sign Language. Aspects of the culture, history, and research perspectives of the deaf community.

WB22	Elizabeth Martinez	Seats (Total: 20)	
	Meets July 11, 2022 - August 19, 2022		
	Class time/details on ELMs	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

EDSP600 **Issues and Trends in Educating Individuals with Disabilities**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Prerequisite: 9 credits in EDSP courses. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Examines research and practice relevant to the education of individuals with disabilities.

WB21	Seyma Intepe Tingir	Seats (Total: 6)	
	Meets July 11, 2022 - August 19, 2022		
	Class time/details on ELMs	ONLINE	

EDSP604 **Education of Students with Autism Spectrum Disorder**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Jointly offered with EDSP404. Credit onl y granted for: EDSP404 or EDSP604.

Characteristics, needs, assessment, and educational methods for students diagnosed as autistic or having a pervasive development disorder.

Contact department for information to register for this course.

EDSP605 **The Exceptional Child and Society**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Prerequisite: EDSP600. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Relationship of the role and adjustment of the child with an exceptionality to societal characteristics.

PDE1	Carolyn Fink	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Special Education Leadership (Ed.D.).	

EDSP606 **Advanced Study in Inclusive Practices in The Schools**

Credits: 3 Grading Method: Regular, Audit

Jointly offered with EDSP450. Credit only granted for: EDSP450, EDSP606 , or EDSP788P. Formerly: EDSP788P.

Educational practices regarding inclusive education in the schools for students with and without disabilities.

PLT1	Barbara Gruber	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Must be in the General Education Teachers in Inclusive Classrooms program or a graduate student in a Semester Academic Calendar program.	

EDSP611 **Teaching Students with Disabilities in Elementary Classrooms**

Credits: 2 Grading Method: Regular

Restriction: Permission of EDUC-Special Education department. Credit only granted for: EDSP608, EDSP611, EDSP401 or EDSP499F.

This course is designed for elementary education majors to prepare for teaching students with disabilities in elementary classrooms. The course examines the legal requirements for general education teachers in the public schools including best practices for participating in the Individual Education Program (IEP) team process, and understanding Response to Intervention (RTI) as a approach to the early identification and support of students with learning and behavior needs. Information is provided on the characteristics of students who have been identified as having high incidence disabilities (e.g., learning disabilities, attention deficit hyperactivity disorder, speech and language delays, emotional or behavioral disorders, and other health impairments). The course then provides information on Universal Design for Learning (UDL) principles, instructional suggestions to include students with disabilities in the general classroom, co-teaching and methods for integrating technology and assistive technology to benefit all students.

Contact department for information to register for this course.

EDSP613 **Behavior and Classroom Management in Special Education**

Credits: 3 Grading Method: Regular

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program; or permission of instructor. Jointly offered with EDSP413. Credit only granted for: EDSP413 or EDSP613.

Applied behavior analysis for assessment of behavior and learning environments. Behavior and classroom management strategies for students in special education.

PLT1	Jerae Kelly	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	Must be in the General Education Teachers in Inclusive Classrooms program or a graduate student in a Semester Academic Calendar program.	

EDSP624 **Assessment in Early Childhood Special Education**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Jointly offered with EDSP42 3. Credit only granted for: EDSP423 or EDSP624.

Assessment procedures for infants and young children with disabilities, birth through age eight.

Contact department for information to register for this course.

EDSP625 **Seminar on Severely Handicapping Conditions**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Research and theories relevant to the education of severely handicapped individuals.

Contact department for information to register for this course.

EDSP798 **Special Problems in Special Education**

(Perm req)

Credits: 1-6 Grading Method: Regular

Intended for Master's, AGS, or doctoral students in education who desire to pursue a research problem.

Contact department for information to register for this course.

EDSP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Registration required to the extent of six hours for Master's thesis.

Contact department for information to register for this course.

EDSP888 **Apprenticeship in Special Education**

Credits: 1-8 Grading Method: Regular

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP888A **Apprenticeship in Special Education; Apprenticeship in College Teaching**

Credits: 3 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP889 **Internship in Special Education**

(Perm req)

Credits: 3-8 Grading Method: Regular

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDSP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDSP899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. dissertation.

Contact department for information to register for this course.

ENAE Engineering, Aerospace Summer 2022

ENAE202 **Computing Fundamentals for Engineers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ENAE202 or ENME202.

Introduction to computational tools for the solution of engineering problems. C++ & MATLAB programming including branching and loops, functions, file handling, arrays, and data structures. Students will be introduced to object-oriented programming, basic computing, algorithms, and principles of software engineering.

WB21	Robert Sanner	Seats (Total: 30)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWF 12:30pm - 1:50pm	ONLINE	
	Th 12:00pm - 2:00pm	ONLINE	Lab

ENAE283 **Introduction to Aerospace Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: PHYS161, MATH141, and ENES102. Corequisite: PHYS261 and PHYS260. Restriction: Must be in Engineering: Aerospace program. Credit only granted for: (ENAE281 and ENAE282) or ENAE283. Formerly: ENAE281 and ENAE282.

Introduction to airplanes and space vehicles as aerospace systems. Fundamentals that describe these systems. Elements of aerodynamics, airfoils and wings. Airplane performance, stability and control. Aircraft and rocket propulsion. Fundamentals of orbital motion. Aspects of vehicle conceptual design.

WB11	Andrew Becnel	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	MTuWThF 4:30pm - 5:50pm	ONLINE

ENAE311 **Aerodynamics I**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: PHYS271, (MATH240 or MATH461), PHYS270, MATH246, ENAE283, ENES220, ENAE202, MATH241, and ENES232. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department; and junior standing or higher.

Fundamentals of aerodynamics. Elements of compressible flow. Normal and oblique shock waves. Flows through nozzles, diffusers and wind tunnels. Elements of the method of characteristics and finite difference solutions for compressible flows. Aspects of hypersonic flow.

WB21	Jarred Young	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	MWF 2:00pm - 4:15pm	ONLINE

ENAE324 **Aerospace Structures**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220. Restriction: Must be in Engineering: Aerospace program.

Analysis of torsion, beam bending, plate bending, buckling and their application to aerospace.

WB21	Sung Lee	Seats (Total: 15)
	Meets July 11, 2022 - August 19, 2022	
	MTuWThF 4:30pm - 6:10pm	ONLINE

ENAE398H **Honors Research Project**

Credits: 1-3 Grading Method: Regular

Planned sequence of steps in aerospace honors research in which students take three (3) consecutive semesters of this course in partial fulfillment of aerospace engineering honors program requirements. The first semester consists of a series of seminars and meetings with faculty mentors on honors research; two semesters consist of undergraduate honors research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference.

0102	Ray Sedwick	Seats (Total: 2)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0201	Ray Sedwick	Seats (Total: 2)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

ENAE423 **Vibration and Aeroelasticity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE324. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Dynamic response of single and multiple degrees of freedom systems, finite element modeling, wing divergence, aileron reversal, wing and panel flutter.

WB21	Andrew Becnel	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	MTuWThF 4:30pm - 5:50pm	ONLINE

ENAE441 **Space Navigation and Guidance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE404 and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Principles of navigation. Celestial, radio, and inertial navigation schemes. Navigational and guidance requirements for orbital, planetary, and atmospheric entry missions. Fundamentals of communications and information theory. Link budgets, antennas and telemetry systems.

WB11	Matthew Marcus, Shikha Redhal	Seats (Total: 15)
	Meets May 31, 2022 - July 8, 2022	
	MTuTh 6:30pm - 8:45pm	ONLINE

ENAE457 **Space Propulsion and Power**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: PHYS271, ENES232, PHYS270, and ENAE311. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And senior standing.

Thermodynamic cycle analysis, aerothermochemistry of fuels and propellants, operating principles of rocket, ion, and other exoatmospheric power units.

WB11	Luis Bravo Robles	Seats (Total: 15)
	Meets May 31, 2022 - July 8, 2022	
	MWF 4:00pm - 6:15pm	ONLINE

ENAE499 **Elective Research; Individual Instruction**

(Perm req)

Credits: 3 Grading Method: Regular

Undergraduate research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference or competition.

Contact department for information to register for this course.

ENAE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENAE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENAE899 **Doctoral Dissertation Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENCE Engineering, Civil Summer 2022

ENCE201 **Engineering Information Processing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220 and MATH241; and permission of ENGR-Civil & Environmental Engineering department. Corequisite: MATH246. Credit only granted for: ENCE201 or ENCE203.

Exploration of algorithms for solving problems in several important areas of numerical computing: roots of equations; matrix algebra and the systems of linear equations; function approximation, numerical differentiation and integration; and ordinary differential equations. Issues of solution accuracy, robustness, and efficiency are also considered. Numerical techniques are presented in the context of engineering applications, and example problems are solved using a variety of computer-based tools (primarily MATLAB).

WB11	Peter Chang	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	MTh 7:30pm - 9:00pm	ONLINE
	Class time/details on ELMs	ONLINE

ENCE422 **Project Cost Accounting and Economics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn: the fundamentals of accounting; project cost accounting principles as they apply to project management; project cost accounting; and the fundamentals of engineering economics.Topics include: project feasibility analysis; reading and analyzing financial statements; cash management; cash flow analysis; depreciation and taxes; and impact on profitability; the principles of activity based costing; net present value analysis; the framework for project performance measurement, cost performance indices, and earned value analysis.

Prerequisites and restrictions do not apply during the summer term.

WB11	Qingbin Cui	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	MTh 7:00pm - 8:00pm	ONLINE
	Class time/details on ELMs	ONLINE

ENCE423 **Project Planning, Estimating & Scheduling**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor. And permission of ENGR-Civil & Environmental Engineering department.

Learn the fundamentals of project planning, estimating, and scheduling. Understand the concepts of planning; to reduce uncertainty, improve efficiency of the operation, to set and meet objectives, and to provide a basis for monitoring and controlling the work. Be introduced to: the concepts of resource definition, assignment and management, and; the basics of project estimating (pricing) methods including global pricing strategies, types of estimates, pricing processes, overhead and profit, and project financing.Learn the basics of project scheduling including; bar charts, network-based methodologies, and linear scheduling techniques. Emphasis is placed on Critical Path Method (CPM) scheduling, a network based methodology. Be exposed to the use of scheduling software and will actually develop a CPM schedule for an actual construction project as part of a semester project.

Prerequisites and restrictions do not apply during the summer term.

WB11	Kenneth O'Connell	Seats (Total: 50)	
	Meets May 31, 2022 - August 19, 2022		
	Tu 4:00pm - 5:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

ENCE424 **Communication for Project Managers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management minor; or must be in the Project Management minor. Jointly offered with: ENCE614. Credit only granted for: ENCE424 or ENCE614.

Learn the fundamentals of communications for project managers. Emphasis is on interpersonal and group communications; through voice, electronic, and written messages; project cycle and reports and presentations during this cycle; and communications for employment.

Prerequisites and restrictions do not apply during the summer term.

WB11	Shana Webster-Trotman	Seats (Total: 25)	
	Meets May 31, 2022 - July 22, 2022		
	Class time/details on ELMs	ONLINE	
	W 7:00pm - 8:30pm	ONLINE	Discussion

ENCE489 **Special Problems in Civil Engineering**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE489C **Special Problems in Civil Engineering; Sustainability and Smart Cities**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE489D **Special Problems in Civil Engineering; Synthesis of the Impact of New Mobility Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE489G **Special Problems in Civil Engineering; Sustainability and Infrastructure**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

SAGG	Dimitrios Goulias	Seats (Total: 0)
	Meets May 19, 2022 - May 30, 2022	
	Contact instructor or department for details.	

ENCE489I **Special Problems in Civil Engineering; Sustainable Green Infrastructure for the Urban Environment: Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE614 **Communications for Project Managers**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be enrolled in the A. James Clark School of Engineering or the School of Architecture. Jointly offered with: ENCE424. Credit only granted for: ENCE424 or ENCE614.

Learn the fundamentals of communications for project managers. Emphasis is on interpersonal and group communications; through voice, electronic, and written messages; project cycle and reports and presentations during this cycle; and communications for employment.

PM01	Shana Webster-Trotman	Seats (Total: 5)	
	Meets May 31, 2022 - July 22, 2022		
	Class time/details on ELMs	ONLINE	
	W 7:00pm - 8:30pm	ONLINE	Discussion

ENCE623 **Introduction to Advanced Scheduling**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENCE423 or ENCE662. Credit only granted for: ENCE623 or ENCE688S.

A Combination of lecture and hands-on use of software to develop advanced knowledge and skills necessary to master advanced scheduling techniques for project management and control will be used. No software purchase is necessary.

PM01	Kenneth O'Connell	Seats (Total: 25)	
	Meets May 31, 2022 - August 19, 2022		
	Tu 6:00pm - 7:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

ENCE625 **Project Administration**

Credits: 3 Grading Method: Regular, Audit

Principles of project administration procedures from the viewpoint of a resident project manager or project engineer on a construction or engineering project. The course specifically addresses the project administration responsibilities of the project manager or project engineer in the engineering, design, or construction industries. Students with a background in the private sector or the government sector will benefit. The course takes a project team approach for improved job efficiency, outlining a project team operation in which the office project administrator delegates to the greatest possible extent all those project administrative functions that can be done more efficiently in the field. The class also addresses the responsibilities and risks that a project administrative manager is likely to encounter. The course is suitable for students, engineering and design professionals, project managers, experienced contract administrators, and owners interested in the special administrative problems of engineering or construction.

Class has weekly videoconferencing.

PM01	Neil Schulman	Seats (Total: 20)	
	Meets May 31, 2022 - July 8, 2022		
	TuTh 1:00pm - 2:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

ENCE661 **Project Cost Accounting and Finance**

Credits: 3 Grading Method: Regular, Audit

This course reviews the fundamentals of accounting; examines project cost accounting principles, applications, and impact on profitability; examines the principles of activity based costing; covers the elements involved in cash management; introduces the framework for how projects are financed and the potential impact financing has on the projects; and a framework for evaluating PC based systems and what resources are needed for an effective project cost system.

Video conference meets Monday at 7:00pm and Tuesday at 3:30pm.

PM01	James Myers	Seats (Total: 25)	
	Meets May 31, 2022 - August 19, 2022		
	Class time/details on ELMs	ONLINE	

ENCE688 **Advanced Topics in Civil Engineering**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

Contact department for information to register for this course.

ENCE689 **Seminar**

Credits: 1-16 Grading Method: Regular, Audit

Contact department for information to register for this course.

ENCE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENCE898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENCE899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENCH Engineering, Chemical Summer 2022

ENCH648 **Special Problems in Chemical Engineering**

Credits: 1-16 Grading Method: Regular, Audit

Research project under the direction of a faculty member.

0105	Peter Kofinas **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0112	Jeffery Klauda **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0113	Chunsheng Wang **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0114	Ganesh Sriram **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0121	Raymond Adomaitis **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0149	Po-Yen Chen **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0203	Panagiotis Dimitrakopoulos **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

0204	Taylor Woehl **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0209	Srinivasa Raghavan **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0212	Jeffery Klauda **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0214	Ganesh Sriram **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0249	Po-Yen Chen **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I206	Mikhail Anisimov **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

ENCH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENCH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENCH899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENCO Engineering, Cooperative Education Summer 2022

ENCO098 **Co-op/Internship Work Experience**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Participation in a cooperative education (co-op) or internship program enables students to apply the theories that they have learned in their traditional classes with paid, supervised, career-related work experience that develops technical and professional work skills. Contact the Engineering Co-op & Career Services Office.

CP10	Heidi Sauber **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 300)
CP20	Heidi Sauber, Liza Lebrun, Veronica Perrigan **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 300)

ENEE Electrical & Computer Engineering Summer 2022

ENEE200 **Technology and Consequences: Engineering, Ethics, and Humanity**

Credits: 3 Grading Method: Regular CORE: IE General Education: DSHU, SCIS

What makes a technology socially responsible? At UMD, the Fearless Ideas campaign asks us to aim our enthusiasm for technology at big real problems. At the same time, we are coming to appreciate the increasingly complex nature of technological systems as they become integrated into all forms of infrastructure, we realize they may be unpredictable, interdependent on social and biological systems, and have unintended consequences. In this midst of this complexity, people make decisions with far reaching impacts. How then do we follow our passion for technology and innovation but also stay skeptical in a way that allows us to consider the potential and shortcomings of technology? Designed for both engineering and non-engineering students wishing to explore and assess the impact of engineering technology on society and the role of society in generating that technology.

WB11	Wesley Lawson **Meets May 31, 2022 - July 8, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 20) ONLINE
WB21	Wesley Lawson **Meets July 11, 2022 - August 19, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 20) ONLINE

ENEE205 **Electric Circuits**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in PHYS260; and minimum grade of C- in PHYS261; and permission of ENGR-Electrical & Computer Engineering department. Corequisite: MATH246. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Credit only granted for: ENEE204 or ENEE205. Formerly: ENEE204.

Design, analysis, simulation, construction and evaluation of electric circuits. Terminal Relationships. Kirchoff's laws. DC and AC steady state analysis. Node and mesh methods. Thevenin and Norton equivalent circuits. Transient behavior of first- and second-order circuits. Frequency response and transfer functions. Ideal op-amp circuits. Diode and transistor circuits.

0101	Wesley Lawson	Seats (Total: 14)	
	Meets May 31, 2022 - July 22, 2022		
	MTuWTh 12:30pm - 1:50pm	AJC 2121	
	TuTh 8:00am - 10:50am	AVW 1356	Lab

ENEE244 Digital Logic Design

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in CMSC132 or ENEE150; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Sophomore standing or higher; and must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

The design and analysis of combinational and synchronous sequential systems comprising digital logic gates and flip-flop memory devices; underlying tools such as switching and Boolean algebras and Karnaugh map simplification of gate networks; design and use of decoders, multiplexers, encoders, adders, registers, counters, sequence recognizers, programmable logic arrays (PLAs), read-only memories (ROMS, PROMS), and similar devices. Arbitrary radix conversion.

Engineering College only (04).

0101	Manoj Franklin	Seats (Total: 30)	
	Meets May 31, 2022 - July 22, 2022		
	MTuWTh 9:30am - 10:50am	PHY 2208	

ENEE322 Signal and System Theory

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH246; and minimum grade of C- in ENEE222; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Concept of linear systems, state space equations for continuous systems, time and frequency domain analysis of signals and linear systems. Fourier, Laplace and Z transforms. Application of theory to problems in electrical engineering.

WB11	Danilo Romero	Seats (Total: 30)
	Meets May 31, 2022 - July 22, 2022	
	MTuWTh 9:30am - 10:50am	ONLINE

ENEE324 **Engineering Probability**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH246 and ENEE222; and permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: BMGT231, STAT400 or ENEE324. Additional information: Electrical Engineering majors may NOT substitute STAT400 for ENEE324.

Axioms of probability; conditional probability and Bayes' rules; random variables, probability distribution and densities: functions of random variables: weak law of large numbers and central limit theorem. Introduction to random processes; correlation functions, spectral densities, and linear systems. Applications to noise in electrical systems, filtering of signals from noise, estimation, and digital communications.

0101	Manoj Franklin	Seats (Total: 40)
	Meets May 31, 2022 - July 22, 2022	
	MTuWTh 1:00pm - 2:20pm	PHY 2208

ENEE350 **Computer Organization**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE244; and 1 course with a minimum grade of C- from (ENEE150, CMSC132); and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Formerly: ENEE250.

Structure and organization of digital computers. Registers, memory, control and I/O. Data and instruction formats, addressing modes, assembly language programming. Elements of system software, subroutines and their linkages.

ENEE majors (09090) only.

0101	Manoj Franklin	Seats (Total: 30)
	Meets May 31, 2022 - July 22, 2022	
	MTuWTh 2:30pm - 3:50pm	PHY 2208

ENEE381 **Electromagnetic Wave Propagation**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENEE380; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program.

The electromagnetic spectrum: Review of Maxwell's equations; the wave equation potentials, Poynting's theorem, relationship between circuit theory and fields; propagation of electromagnetic waves in homogeneous media and at interfaces; transmission line theory, waveguides, radiation and antennas.

WB11	Wesley Lawson	Seats (Total: 30)
	Meets May 31, 2022 - July 22, 2022	
	TuTh 4:00pm - 6:50pm	ONLINE

ENEE411 **Advanced Analog and Digital Electronics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in ENEE303. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; and must have permission of the department. Credit only granted for: ENEE411 or ENEE419A. Formerly: ENEE419A.

Examination of analog and digital device models for analysis, design, and simulation of transistor level electronic circuits, emphasizing Metal Oxide Silicon Field Effect Transistors (MOSFETs); fundamental single transistor configurations; frequency response, feedback, and stability of multi-transistor circuits, such as current mirrors, differential amplifiers, voltage references, operational amplifiers and data converters; complementary Metal Oxide Silicon (CMOS) implementations of static and clocked digital as well as mixed signal circuits.

WB11	Danilo Romero	Seats (Total: 25)
	Meets May 31, 2022 - July 22, 2022	
	MTuWTh 1:00pm - 2:20pm	ONLINE

ENEE488 **Independent Study in Electrical and Computer Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity for independent study projects on advanced electrical and computer engineering topics. These projects typically involve academic investigations of technical themes that are not addressed in the established elective and special topics courses taught by the department on a regular basis. Study plans are tailored to students educational goals but are approved and supervised by faculty.

Contact department for information to register for this course.

ENEE489F **Topics in Electrophysics; Quantum Boot Camp**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail

Selected topics of current importance in electrophysics.

Prerequisites: MATH141 and either MATH240 or PHYS274; or equivalent course work. Cross-listed with PHYS499F, CMSC488A, and CHPH499F. Credit granted for PHYS499F, CMSC488A, CHPH499F, or ENEE489F. Designed for computer science, engineering and mathematics majors. Introduces basic concepts and techniques widely used in quantum information science.

0501	Charles Clark	Seats (Total: 38)
	Meets June 21, 2022 - July 8, 2022	
	TuTh 10:00am - 12:30pm	ATL 3100A

ENEE499 **Senior Projects in Electrical and Computer Engineering**

(Perm req)

Credits: 1-5 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE699 **Independent Studies in Electrical Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Supervised individual study or project, or supervised group study or project, at an advanced level, in electrical engineering.

Contact department for information to register for this course.

ENEE799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENEE898 **Pre-Candidacy Research**

(Perm req) Credits: 1-8 Grading Method: Regular

Provide training in education for senior PhD students who contemplate an academic career, and give them the opportunity to gain some teaching experience. Emphasis is on issues that are of special importance in electrical and computer engineering education.

Contact department for information to register for this course.

ENEE899 **Doctoral Dissertation Research**

(Perm req) Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENES Engineering Science Summer 2022

ENES100 **Introduction to Engineering Design**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSSP

Corequisite: MATH140.

Students work as teams to design and build a product using computer software for word-processing, spreadsheet, CAD, and communication skills.

YS41	Peter Chang, David Lovell **Meets July 11, 2022 - July 29, 2022** MTuWThF 9:00am - 1:00pm *Restricted to students in Terp Young Scholars.*	Seats (Total: 20) AJC 1106
YS42	Peter Chang, David Lovell **Meets July 11, 2022 - July 29, 2022** MTuWThF 9:00am - 1:00pm *Restricted to students in Terp Young Scholars.*	Seats (Total: 17) AJC 1110

ENES102 **Mechanics I**

(Perm req) Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Formerly: ENES110.

The equilibrium of stationary bodies under the influence of various kinds of forces. Forces, moments, couples, equilibrium, trusses, frames and machines, centroids, moment of inertia, beams, friction, stress/strain, material properties. Vector and scalar methods are used to solve problems.

0101	Kevin Calabro **Meets May 31, 2022 - July 8, 2022** MTh 12:00pm - 2:20pm TuW 12:00pm - 2:20pm	Seats (Total: 45) PHY 2213 ONLINE
0201	Jarred Young **Meets July 11, 2022 - August 19, 2022** MTh 10:00am - 12:20pm TuW 10:00am - 12:20pm	Seats (Total: 45) JMZ 2206 ONLINE

ENES106 **Achieving Success in Mathematics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-A. James Clark School of Engineering.

An exploration of the skills and habits needed to successfully complete introductory mathematics courses.

Restricted to students in the Summer Bridge Program.

0101	Christopher Dock **Meets June 24, 2022 - August 5, 2022** MTuWThF 9:00am - 11:30am	Seats (Total: 40) TYD 1114

ENES107 **Achieving College Excellence**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-A. James Clark School of Engineering.

An exploration of the skills and habits needed to successfully complete the introductory chemistry course for engineering students. Course will also include strategies for a successful first year experience.

Restricted to students in the Summer Bridge Program.

0101	Kim Rehwoldt, Migdalia Maldonado **Meets June 24, 2022 - August 5, 2022** MTuWThF 1:30pm - 4:30pm	Seats (Total: 40) PHY 2214

ENES197 **The Fault in Our Data: What Counts and Who's Counting**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, SCIS

Prerequisite: MATH113 or equivalent. Recommended: MATH115.

Quantitative data and analysis are key to understanding the shape of the world. In this course, we will use the tools of computational analysis to load, interrogate, visualize, and model datasets from dozens of data points to hundreds of thousands. We'll look at how computational methods can tell us when a movie is sexist, how wealth inequality can form, and how rumors spread like diseases. Then, you will find datasets of interest, write code to make sense of them, and share your findings with the world. No prior programming experience is required.

WB21	Brian Danielak	Seats (Total: 20)
	Meets July 11, 2022 - August 19, 2022	
	MTuWTh 12:00pm - 2:20pm	ONLINE

ENES220 **Mechanics II**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; and must not be in Engineering: Electrical program.

Stress and deformation of solids-rods, beams, shafts, columns, tanks, and other structural, machine and vehicle members. Topics include stress transformation using Mohr's circle; shear and moment diagrams; derivation of elastic curves; and Euler's buckling formula. Design problems related to this material are given in lab.

0101	Thomas Beigel	Seats (Total: 45)
	Meets May 31, 2022 - July 8, 2022	
	Th 12:00pm - 2:20pm MTuW 12:00pm - 2:20pm	PHY 2122 ONLINE
0201	Thomas Beigel	Seats (Total: 45)
	Meets July 11, 2022 - August 19, 2022	
	Th 12:00pm - 2:20pm MTuW 12:00pm - 2:20pm	PHY 2122 ONLINE

ENES221 **Dynamics**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

Systems of heavy particles and rigid bodies at rest and in motion. Force-acceleration, work-energy and impulse-momentum relationships. Motion of one body relative to another in a plane and in space.

0101	Patrick McAvoy	Seats (Total: 45)
	Meets May 31, 2022 - July 8, 2022	
	MTh 11:00am - 1:20pm	PHY 2106
	TuW 11:00am - 1:20pm	ONLINE

ENES232 **Thermodynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261 and PHYS260. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Credit only granted for: BIOE232, CHBE301, ENCH300, ENES232, ENME320, or ENME232. Formerly: ENME232 and ENME320.

Introduction to thermodynamics. Thermodynamic properties of matter. First and second laws of thermodynamics, cycles, reactions, and mixtures.

0101	Jarred Young	Seats (Total: 45)
	Meets May 31, 2022 - July 8, 2022	
	WTh 3:00pm - 4:30pm	PHY 2106
	M 3:00pm - 5:00pm	ONLINE
	Class time/details on ELMs	ONLINE
0201	Catherine Hamel	Seats (Total: 45)
	Meets July 11, 2022 - August 19, 2022	
	M 2:00pm - 4:00pm	ONLINE
	WTh 2:00pm - 4:30pm	PHY 2106
	Class time/details on ELMs	ONLINE

ENES317 **Introduction to Leadership in Engineering, Science, and Technology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Must be in the Minor in Global Engineering Leadership(#EN09). Additional information: Students not meeting restriction requirements should add themselves to the course holdfile. Restrictions DO NOT apply to winter and summer terms.

Develop a comprehensive overview and introduction to leadership and organizational development. Students will reflect on their own leadership experiences, develop a strong foundational knowledge of leadership theory, and advance their capacities in effectively leading teams. Students will connect leadership theory to practice by engaging in case study analysis and critique leadership practices enacted within engineering and technology settings. Students will complete self-assessments to better understand their own leadership strengths and refine their approaches to leadership by incorporating theories covered in this course.

WB11	Darren Pierre	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

ENES458A **Topics in International Engineering; Engineers Without Borders: Leadership Seminar - Assessment**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

A variety of topics related to engineering in a global context are discussed including cultural aspects, cross-cultural communication, international standards and law, and engineering and technology issues, business behavior, attitudes and values of selected countries and regions.

Ghana

Contact department for information to register for this course.

ENES458C **Topics in International Engineering; Engineers Without Borders: Leadership Seminar - Monitoring**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

A variety of topics related to engineering in a global context are discussed including cultural aspects, cross-cultural communication, international standards and law, and engineering and technology issues, business behavior, attitudes and values of selected countries and regions.

Contact department for information to register for this course.

ENES458I **Topics in International Engineering; Engineers Without Borders: Leadership Seminar - Implementation**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

A variety of topics related to engineering in a global context are discussed including cultural aspects, cross-cultural communication, international standards and law, and engineering and technology issues, business behavior, attitudes and values of selected countries and regions.

Contact department for information to register for this course.

ENES460 **Fundamentals of Technology Start-Up Ventures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Credit only granted for: ENES460, BMGT461, SMLP470 or HLMN470. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Fundamental aspects of creating, organizing, funding, managing, and growing a technology startup venture. This multidisciplinary course will draw on management, business, legal, financial, as well as technical, concepts. Students form teams and develop a business plan for a technology company, based on each team's own business idea and then present the plan to a panel of outside experts.

For the Summer Session, all undergraduates are invited to enroll as restrictions are not applicable.

WB51	James Green	Seats (Total: 75)
	Meets June 21, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

ENES462 **Marketing High-Technology Products and Innovations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Examines the opportunities and challenges of marketing high-technology products in turbulent environments requiring rapid decision making with incomplete information. Explores how innovations are introduced at frequent intervals, research-and-development spending is vital, and there are high mortality rates for both products and businesses.

For the Summer Session, all undergraduates are invited to enroll as restrictions are not applicable.

WB61	Olufunlola Koiki	Seats (Total: 75)
	Meets August 1, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ENES463 **Strategies for Managing Innovation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Credit only granted for: ENES463, BMGT467, SMLP473 or HLMN472. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Emphasizes how the technology entrepreneur can use strategic management of innovation and technology to enhance firm performance. Examines the process of technological change, the ways that firms come up with innovations, the strategies that firms use to benefit from innovation, and the process of formulating technology strategy. Provides frameworks for analyzing key aspects of these industries and teaches students how to apply these frameworks.

For the Summer Session, all undergraduates are invited to enroll as restrictions are not applicable.

WB31	Sharon Flank	Seats (Total: 50)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

ENES664 **Business Modeling and Customer Validation**

Credits: 3 Grading Method: Regular

Focuses on how to create and deliver value for customers and extract value for the new venture. Develop business models that encompass the product or service, customers, and the economic engine to meet the venture's financial and growth objectives. Introduces a structured way to think about, analyze, and develop a sound business model that is customer validated.

PLM1	Daniel Gordon	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Students in the MPS in Technology Entrepreneurship may register without permission. All other graduate students may contact mpte@umd.edu for permission to enroll.	

ENES665 **Innovative Thinking**

Credits: 3 Grading Method: Regular

Introduces students to new and powerful tools to boost their creative problem solving skills. Participants re-discover their communication and teaming skills. Students unlock their creativity potential, and explore win-win approaches to define and solve problems of different kinds. Students are also introduced to topics related to intellectual property.

PLM1	Frankie Abralind	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Students in the MPS in Technology Entrepreneurship may register without permission. All other graduate students may contact mpte@umd.edu for permission to enroll.	

ENES670 **Financial Management and New Venture Financing**

Credits: 3 Grading Method: Regular

Provides the essential tools and skills to build a strong financial foundation for a new technology venture. Examines accounting principles as well as methods for keeping firm financial control of the venture. Discusses navigating the multitude of financial barriers that may block entrepreneurial success, as well as how to raise the right amount of capital at the right time from the right source.

PLM1	Michael Pratt	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Students in the MPS in Technology Entrepreneurship may register without permission. All other graduate students may contact mpte@umd.edu for permission to enroll.	

ENES671 **Legal Aspects of Entrepreneurship**

Credits: 3 Grading Method: Regular

Explores critical legal and business issues entrepreneurs face as they build and launch a new venture. Examines real world scenarios, and addresses the legal issues at all of the important junctures along the path to success. Significant attention placed on new venture formation, intellectual property management, and financing arrangements.

PLM1	Wilson White	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Students in the MPS in Technology Entrepreneurship may register without permission. All other graduate students may contact mpte@umd.edu for permission to enroll.	

ENFP Engineering, Fire Protection Summer 2022

ENFP429 **Independent Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

For students who have definite plans for individual study of approved problems, or study of an advanced topic selected in conjunction with the faculty.

Contact department for information to register for this course.

ENFP629 **Selected Topics**

Credits: 3-6 Grading Method: Regular, Audit

Current research, studies in fire protection engineering. Future trends and significant changes in research, professional areas. The professional standards process.

Contact department for information to register for this course.

ENFP649 **Special Problems**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature to suit the special needs and background of students, or for individual students who have definite plans of individual study.

Contact department for information to register for this course.

ENFP653 **Advanced Fire Supression**

(Perm req)

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Restriction: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP410, ENFP489L, ENFP653, or ENFP629C. Formerly: ENFP629C.

Issues related to the suppression of fires and the design of fire suppression systems. Theoretical aspects of fire suppression and extinction are considered to provide the foundation for the practical design of different types of fire suppression systems. Focus on water-based and "clean agent" fire suppression systems, with emphasis on high challenge and special hazard applications. Systems using other agents are introduced, but are not addressed in detail.

EF01	Jason Sutula	Seats (Total: 40)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ENFP664 **Advanced Industrial Fire Safety**

(Perm req)

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Jointly offered with ENFP464. Credit only granted for: ENFP489I, ENFP62 9I, ENFP464, or ENFP664. Formerly: ENFP489I and ENFP629I.

This class is designed to introduce students to the basics of process safety with a focus on the methods and techniques that may be utilized when evaluating the existing or proposed safety protection solutions in industrial facilities. An emphasis is placed on properly identifying the hazards that are present, the risk exposure, and how best to address the risk. The foundation is laid by presenting the necessary background information on industrial processes and integrating this information with applicable fire/explosion safety science.

EF01	Noah Ryder, Arnaud Trouve	Seats (Total: 40)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ENFP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Development and completion of Master's Thesis.

Contact department for information to register for this course.

ENGL English Summer 2022

ENGL101 **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

Additional information: Students must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

An introductory course in academic writing.

WB11	Jonathan Reyes **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Mike Kolakoski **Meets June 21, 2022 - July 29, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	Katherine Hansen **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB22	Marina Ellis **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 6) ONLINE
WB23	Benjamin Baker **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL245 **Film Form and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU

Cross-listed with: CINE245. Credit only granted for: ENGL245, CINE245 or FILM245. Formerly: FILM245.

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

Click here for more course information.

WB21	Konstantinos Pozoukidis	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ENGL269A **Special Topics in Study Abroad II; American Writers in Paris**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL269I **Special Topics in Study Abroad II; James Joyce's Dublin: Creative Writing with The Dubliners: Ireland**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL269R **Special Topics in Study Abroad II; Writing Rome**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL348G **Literary Works by Women; Jane Austen: Novels, Films, Adaptations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

The context, form, style and meaning of literary works by women.

WB11	Tita Chico	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

ENGL359F **Lesbian, Gay, Bisexual, and Transgender Film and Video**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Restriction: Junior standing or higher. Cross-listed with: LGBT327. Credit only granted for: LGBT327 or ENGL359F.

Comparative analysis of forms, themes, and the politics of representation in film and video by and/or about LGBT people.

Also offered as LGBT327. Credit granted for LBGT327 or ENGL359F.

Click here for more course information.

WB41	James Goodwin	Seats (Total: 30)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

ENGL369A **Special Topics in Study Abroad III; American Writers in Paris**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL369D **Australian Literature and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSHU, DVCC

Additional information: This is an Education Abroad course.

An immersion into Australian culture and history, this course will explore the literature, music, theater, and arts of Indigenous and contemporary Australia. Students will engage directly with matters of political and social concern, developing both awareness of cultural issues important to modern-day Australians and the skills needed to navigate those issues. Along the way, we will look back to the colonial founding of Australia as a British outpost and consider how modern Australia has emerged from a mixing of Western and Indigenous cultures.

If you are participating in the Global Classrooms section of this course, please disregard information regarding the pre and post departure requirements.

Contact department for information to register for this course.

ENGL369K **Special Topics in Study Abroad III; Great Directors**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL369P **Special Topics in Study Abroad III; Politics and Science Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL369R **Special Topics in Study Abroad III; Great Actors**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL375 **J.R.R. Tolkien: Middle-earth and Beyond**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

An in-depth look at major themes and ideas spanning Tolkien's well-known and lesser-known works across a variety of genres and styles. We will study "The Hobbit" and "The Lord of the Rings" in connection with Tolkien's back-story mythology expressed in "The Silmarillion." We will also consider film adaptations and other popular fantasy influenced by Tolkien. And we will explore lesser-known works such as "Farmer Giles of Ham," and Tolkien's essays on fairy stories and on "Beowulf.

Click here for more course information.

WB21	Vessela Valiavitcharska	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ENGL388P **English Careers Internship**

(Perm req) Credits: 1-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Prerequisite: Permission of ARHU-English department. Repeatable to 12 credits if content differs. Additional information: Each enrolled credit equals 45 hours of on-site internship work.

Students receive credit for an internship of their choice that focuses at least half of its work on core English skills such as writing, editing, and research. Students secure their own internship placements. Course assignments include, for instance, an activity log, reflection papers, a supervisor evaluation, and a final portfolio of work.

Click here for more course information.

WB21	Karen Lewis	Seats (Total: 20)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ENGL391 Advanced Composition

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.

An advanced composition course which emphasizes constructing written arguments accommodated to real audiences.

GC01	Christopher Crane, Peter Grybauskas	Seats (Total: 19)
	Meets August 1, 2022 - August 19, 2022	
	TuTh 12:30pm - 2:30pm	ONLINE
	Class time/details on ELMs	ONLINE

A professional writing course exploring the life and works of JRR Tolkien, professor and author of The Lord of the Rings. Virtual visits with scholars and experts in Oxford, England, where Tolkien spent much of his life, offer a unique opportunity to learn about the writer's world and the unique intersections between his scholarship and his fantasy. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration. Learn more about Global Classrooms: go.umd.edu/gc-umd.

GC02	Peter Grybauskas **Meets August 1, 2022 - August 19, 2022** TuTh 12:30pm - 2:30pm Class time/details on ELMs *A professional writing course exploring the life and works of JRR Tolkien, professor and author of The Lord of the Rings. Virtual visits with scholars and experts in Oxford, England, where Tolkien spent much of his life, offer a unique opportunity to learn about the writer's world and the unique intersections between his scholarship and his fantasy. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration. Learn more about Global Classrooms: go.umd.edu/gc-umd.*	Seats (Total: 19) ONLINE ONLINE
WB11	Laura Williams **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Brianne Friel **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB13	Liam Daley **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	Mark Forrester **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB22	Alan Montroso **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL393 **Technical Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.

Focuses on the writing of technical papers and reports.

WB10	Andrew Delfino **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB11	Mark Fitzgerald **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Ruth Phillips **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB13	Joshua Buursma **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB14	Pamela Gerhardt **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB15	Daniel Saalfeld **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB16	Roberto Leon **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB17	Amanda Allen **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB18	Sarah Dammeyer **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB19	Cameron Mozafari **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE

WB1A	William Pittman **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB1B	Ann Mason **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB20	Dennis Winston **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	Jesse Brooks **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB22	Nia Crawford **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB23	Blake Wilder **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB24	Peter Witte **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB25	Shannon Zellars Strohl **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB26	Emily Flamm **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB27	Kisa Lape **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE

WB28	Nicole Cuffy **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB29	Sabrina Islam **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL394 **Business Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.

Intensive practice in the forms of written communication common in the business world: letters, memos, short reports, and proposals. Focus on the principles of rhetoric and effective style.

WB11	Pamela Orel **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Kate Wilson **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB13	Tom Hatcher **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB14	Erica Cochran **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	John Kim **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB22	Katherine Joshi **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE

WB23	Daune O'Brien **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB24	Justin Lohr **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB25	Radford Skudrna **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL395 **Writing for Health Professions**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.

Focus on accommodating health-related technical material and empirical studies to lay audiences, and helping writers to achieve stylistic flexibility and correctness.

WB11	Joseph Angelella **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	David Miles **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE
WB13	Michael Schmidt **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL409C **Study Abroad Special Topics IV; Shakespeare's Italian Plays**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL409M **Study Abroad Special Topics IV; Literature, Art and Architecture in London**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Cross-listed with THET428E. Credit only granted for ENGL409M or THET428E. This course is an in-depth look at the best of British Culture. It has six focal points: History, Literature, and Drama as well as Art History, Archaeology, and Architecture. Lectures and discussions are conducted via Zoom as the class makes its way around London through time and space, looking at historic and archaeological sites, buildings, galleries, museums, and backstage at several theatres and rehearsal spaces. There are also guest lectures by friends working in such fields as theatre, archaeology, architecture, geology, historical biology, and local history. The class will also watch the streaming version of London plays. The archaeological BBC show, TIME TEAM, will be used to investigate sites associated with London in various times. Some guest lectures might take place outside of normal synchronous class hours. Students are expected to write several short papers on various topics.

Contact department for information to register for this course.

ENGL409Y **Study Abroad Special Topics IV; Travel Writing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL429 **Independent Research in English**

(Perm req)

Credits: 1-6 Grading Method: Regular

An advanced independent research project for qualified students, supervised by an English faculty member, on a topic not ordinarily covered in available courses.

Contact department for information to register for this course.

ENGL437 **Contemporary American Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Prose, poetry, drama of living American writers. Current cultural and social issues.

WB11	Lee Konstantinou	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

ENGL679 **Professional and Career Mentoring for Master's Students**

Credits: 1-3 Grading Method: Sat-Fail

Augments advising currently provided by the English Department Graduate Studies Office. Individual professional and career mentoring for MA and MFA students from a faculty member.

0108	Instructor: TBA **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0266	Instructor: TBA **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

ENGL699 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

ENGL799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENGL879 **Professional Mentoring for Doctoral Students**

Credits: 1-3 Grading Method: Sat-Fail

Augments advising currently provided by the English Department Graduate Studies Office. Individual professional and career mentoring for PhD students from a faculty member.

Contact department for information to register for this course.

ENGL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Pedagogical mentoring by roster faculty members for graduate students teaching 200-level literature courses.

0201	Instructor: TBA **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)

ENGL899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENMA Engineering, Materials Summer 2022

ENMA300 **Introduction to Materials Engineering**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100; and permission of ENGR-Materials Science & Engineering department. Corequisite: MATH241. Recommended: PHYS261 and PHYS260. Restriction: Permission of ENGR-Mechanical Engineering department. Cross-listed with ENME382. Credit only granted for: ENMA300 or ENME382.

Structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials. Materials selection in engineering applications.

WB21	Patrick McCluskey, Isabel Lloyd	Seats (Total: 75)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ENMA499 **Senior Laboratory Project**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Students work with a faculty member on an individual laboratory project in one or more of the areas of engineering materials. Students will design and carry out experiments, interpret data and prepare a comprehensive laboratory report.

0101	Instructor: TBA	Seats (Total: 2)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

ENMA698 **Special Problems in Materials Science and Engineering**

Credits: 1-3 Grading Method: Regular, Audit

Individual, supervised study in materials science and engineering.

Contact department for information to register for this course.

ENMA797 **Independent Study**

Credits: 3 Grading Method: Regular, Audit

This course is designed to provide students with a directed independent study course in order to prepare the scholarly paper required for the master's degree without thesis degree option.

0101	Ichiro Takeuchi	Seats (Total: 2)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

ENMA799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENMA898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENMA899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENME Engineering, Mechanical Summer 2022

ENME202 **Computing Fundamentals for Engineers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: Must be concurrently enrolled in MATH141. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENAE202 or ENME202.

Introduction to computational tools for the solution of engineering problems. C++ & MATLAB programming including branching and loops, functions, file handling, arrays, and data structures. Students will be introduced to object-oriented programming, basic computing, algorithms, and principles of software engineering.

WB21	Robert Sanner	Seats (Total: 30)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWF 12:30pm - 1:50pm	ONLINE	
	Th 12:00pm - 2:00pm	ONLINE	Lab

ENME331 **Fluid Mechanics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232 and ENES221. Credit only granted for: BIOE331, ENCE305, ENFP300, or ENME331.

Principles of fluid mechanics. Mass, momentum and energy conservation. Hydrostatics. Control volume analysis. Internal and external flow. Boundary layers. Modern measurement techniques. Computer analysis. Laboratory experiments.

0101	Xinan Liu	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	MW 12:30pm - 4:00pm	MTH 0106

ENME332 **Transfer Processes**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME331. Credit only granted for: ENME332 or ENFP312.

The principles of heat transfer. Conduction in solids. Convection. Radiation. Modern measurement techniques. Computer analysis.

0101	Amir Shooshtari	Seats (Total: 28)
	Meets May 31, 2022 - July 8, 2022	
	TuTh 10:00am - 1:30pm	PHY 2124

ENME361 **Vibration, Controls and Optimization I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220, ENES221, and MATH246; and (MATH206 or ENME202). Restriction: Must be in Engineering: Mechanical program.

Fundamentals of vibration, controls and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical description of system response, system stability, control and optimization. Optimal design of mechanical systems.

0101	Vincent Nguyen	Seats (Total: 28)
	Meets May 31, 2022 - July 8, 2022	
	TuTh 9:00am - 12:30pm	PHY 2211

ENME382 **Introduction to Materials Engineering**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100; and permission of ENGR-Mechanical Engineering department. Corequisite: MATH241. Recommended: PHYS261 and PHYS260. Restriction: Permission of ENGR-Mechanical Engineering department. Cross-listed with ENMA300. Credit only granted for: ENMA300 or ENME382.

Structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials. Materials selection in engineering applications.

WB21	Patrick McCluskey, Isabel Lloyd	Seats (Total: 75)	
	Meets July 11, 2022 - August 19, 2022		
	Class time/details on ELMs	ONLINE	

ENME392 **Statistical Methods for Product and Processes Development**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241.

Integrated statistical methodology for the improvement of products and processes in terms of performance, quality and cost. Designed experimentation. Statistical process control. Software application. Laboratory activities.

Students have the option to meet in JMP2121.

WB11	David Bigio	Seats (Total: 34)	
	Meets May 31, 2022 - July 8, 2022		
	MW 11:00am - 1:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

ENME400 **Machine Design**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in ENME361. Restriction: Permission of ENGR-Mechanical Engineering department.

Design of mechanical elements and planar machines. Failure theories. Design of pressure vessels, joints, rotating elements, and transmission elements. Kinematic structures, graphical, analytical, and numerical analysis and synthesis of linkages, gear trains, and flywheels are covered.

0201	Chandrasekhar Thamire	Seats (Total: 49)
	Meets July 11, 2022 - August 19, 2022	
	MW 10:00am - 12:00pm	AJC 2132
	Tu 10:00am - 12:45pm	AJC 2132
	Th 10:00am - 12:00pm	AJC 2132

ENME407 **Sustainability, Climate Change and Renewable Energy Systems**

Credits: 3 Grading Method: Regular

Prerequisite: PHYS260; or permission of ENGR-Mechanical Engineering department. Restriction: Students must have completed a minimum of 60 credits by the time they will enroll in this course.

Countries around the world are developing innovative and sustainable solutions that not only help to protect the environment from the threats of global climate change, but that also can improve human health and quality of life. In this course students will explore solutions to climate change, as well as geothermal and hydroelectric energy systems and their applications.

Contact department for information to register for this course.

ENME445 **Design for Reliability**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher.

Failure prevention, accident prevention, design requirements analysis, designing right the first time, high system reliability, software reliability, manufacturing defect prevention, life cycle costs reduction, design reviews, managing the design for reliability, design trustworthiness, product durability, and writing good specifications are covered.

WB11	Baldev Raheja	Seats (Total: 32)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

ENME462 **Vibrations, Controls, and Optimization II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME361. Restriction: Permission of the Mechanical Engineering Department.

Continuation of ENME361. Fundamentals of vibration, controls, and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical descriptions of system response, system stability, control and optimization. Optimal design of mechanical systems.

0101	Sami Ainane	Seats (Total: 32)
	Meets May 31, 2022 - July 8, 2022	
	MTuWTh 10:00am - 12:00pm	MTH 0304

ENME470 **Finite Element Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Senior standing; and permission of ENGR-Mechanical Engineering department.

Basic concepts of the theory of the finite element method. Applications in solid mechanics and heat transfer.

WB11	Joshua Radice	Seats (Total: 19)
	Meets May 31, 2022 - July 8, 2022	
	MWF 8:00am - 10:30am	ONLINE

ENME488 **Special Problems**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced problems in mechanical engineering with special emphasis on mathematical and experimental methods.

Contact department for information to register for this course.

ENME489K **Special Topics in Mechanical Engineering; Design for Safety**

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in mechanical engineering.

WB21	Baldev Raheja	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

ENME635 **Energy Systems Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Undergraduate thermodynamics course or permission of the instructor. Credit only granted for: ENPM635 or ENME635.

Methods for the analysis of conventional and novel energy systems are taught throughout the course. Additional topics are, using the US National Energy Flow Chart to understand sources of carbon emissions, discussion of energy efficiency improvement methods, discussion of decarbonization and carbon capture and sequestration approaches and their impact on efficiency and emissions.

Contact department for information to register for this course.

ENME701 **Sustainable Energy Conversion and the Environment**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Undergraduate thermodynamics course or permission of instructor.

Discussion of the major sources and end-uses of energy in our society with particular emphasis on renewable energy production and utilization. The course introduces a range of innovative technologies and discusses them in the context of the current energy infrastructure. Renewable sources such as wind and solar, and renewable enabling technologies such as energy storage are discussed in detail. Particular attention is paid to the environmental impact of the various forms of energy. This course is designed to provide, when taken together with ENME635, a comprehensive overview of sustainable energy production and utilization including carbon capture and sequestration.

Contact department for information to register for this course.

ENME799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENME808 **Advanced Topics in Mechanical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ENME898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENME899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENNU Engineering, Nuclear Summer 2022

ENNU899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0102	Mohamad Al-Sheikhly **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 1)

ENPM Engineering, Professional Masters Summer 2022

ENPM626 **Waste and Biomass Energy Conversion**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed undergraduate courses in thermodynamics and heat transfer. Restriction: Permission of Maryland Applied Graduate Engineering.

Thermal, chemical, and biological processes for conversion of wastes (primarily solid and liquid) to reduce environmental impact and increase recovery of useful energy resources. Emphasis on solid wastes and their composition. Identification of pollution products and their control.

CP01	Patrick Caton **Meets May 31, 2022 - August 19, 2022** W 5:30pm - 8:45pm	Seats (Total: 25) JMP 2222
ME01	Patrick Caton **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE
SM01	Patrick Caton **Meets May 31, 2022 - August 19, 2022** W 5:30pm - 8:45pm	Seats (Total: 5) Location: TBA

ENPM634 **Penetration Testing**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENPM809Q or ENPM634. Formerly: ENPM809Q.

This course will give students a hands-on deep dive into penetration testing tools and methodologies. Starting with reconnaissance, open source intelligence, and vulnerability scanning we will move on to exploiting both clients and servers, moving laterally through a network while evading security measures.

CP01	Kevin Shivers **Meets May 31, 2022 - August 19, 2022** W 5:30pm - 8:45pm	Seats (Total: 25) JMP 2121
CY01	Kevin Shivers **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE
SM01	Kevin Shivers **Meets May 31, 2022 - August 19, 2022** W 5:30pm - 8:45pm	Seats (Total: 5) Location: TBA

ENPM652 **Applied Finite Element Methods**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must not have completed ENME674; and must not have completed ENAE652. Credit only granted for: ENME674, ENAE652, or ENPM652.

For engineering and science students with little or no previous knowledge of the FEM. Study of FEM, using straightforward mathematics. Students should understand basic concepts and equations of elasticity and thermal heat flow, be familiar with simple matrix algebra. Covers stress analysis and thermal analysis problems. ANSYS finite element code will be used for examples and homework solutions. Basic problem solving procedure will be developed for using finite element computer codes.

CP01	Francis VanGessel **Meets May 31, 2022 - August 19, 2022** Th 5:30pm - 8:45pm	Seats (Total: 25) JMP 2222
DE01	Francis VanGessel **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE
SM01	Francis VanGessel **Meets May 31, 2022 - August 19, 2022** Th 5:30pm - 8:45pm	Seats (Total: 5) ONLINE

ENPM654 **Energy Systems Management**

Credits: 3 Grading Method: Regular, Audit

Recommended: Background in thermodynamics, fluid mechanics, and heat transfer is recommended.

Covers a wide range of energy management and energy efficiency topics including energy auditing, energy efficient lighting systems and motors, demand limiting and control, control strategies for optimization, direct digital control, integrated building automation systems, communication networks, distributed generation, cogeneration, combined heat and power, process energy management and the associated economic analyses. Included will be the latest internet based technologies for accessing real-time energy pricing and managing energy demand remotely for multiple buildings or campuses.

CP01	Brian Valentine **Meets May 31, 2022 - August 19, 2022** Th 5:30pm - 8:45pm	Seats (Total: 20) JMP 2116
ME01	Brian Valentine **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE
SM01	Brian Valentine **Meets May 31, 2022 - August 19, 2022** Th 5:30pm - 8:45pm	Seats (Total: 5) Location: TBA

ENPM676 **VLSI Testing and Design for Testability**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE244; or students who have taken courses with comparable content may contact the department.

An overview of VLSI test process and equipment, faults, fault modeling, fault simulation, combinational logi ATPG, sequential logic ATPG, Iddq testing, function testing, memory testing, delay testing, design for testability, BIST (Built-In Self-Test) and boundary scan.

CP01	Manoj Franklin **Meets May 31, 2022 - August 19, 2022** Tu 5:30pm - 8:45pm	Seats (Total: 25) JMP 2222
DE01	Manoj Franklin **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 5) ONLINE

SM01	Manoj Franklin **Meets May 31, 2022 - August 19, 2022** Tu 5:30pm - 8:45pm	Seats (Total: 5) Location: TBA

ENPM687 **Digital Forensics and Incidence Responses**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Experience with both Windows and Unix-based operating systems, including using the command line. Credit only granted for: ENPM808P or ENPM687. Formerly: ENPM808P.

Students will implement a robust incident response methodology, including proper forensic handling of evidence, and cover legal aspects of national and international law regarding forensics. The bulk of the course covers evidence acquisition, preservation, analysis and reporting on multiple platforms.

CP01	Jonas Amoonarquah **Meets May 31, 2022 - August 19, 2022** Tu 5:30pm - 8:45pm	Seats (Total: 20) JMP 2116
CY01	Jonas Amoonarquah **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE
SM01	Jonas Amoonarquah **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

ENPM808 **Advanced Topics in Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professional master of engineering program. May be taken for repeated credit when identified by topic title.

CP01	George Syrmos **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

ENPM809E **Special Topics in Engineering; Python Applications for Robotics**

Credits: 3 Grading Method: Regular, Audit

Special topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.

CP01	Zeid Kootbally **Meets May 31, 2022 - August 19, 2022** W 5:30pm - 8:45pm	Seats (Total: 30) JMP 2116
DE01	Zeid Kootbally **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE
SM01	Zeid Kootbally **Meets May 31, 2022 - August 19, 2022** W 5:30pm - 8:45pm	Seats (Total: 5) Location: TBA

ENPM809L **Special Topics in Engineering; Sampling Theory and Analog to Digital Conversion**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Special topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.

CP01	Patrick Jungwirth **Meets May 31, 2022 - August 19, 2022** Th 5:30pm - 8:46pm	Seats (Total: 25) JMP 2121
DE01	Patrick Jungwirth **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE
SM01	Patrick Jungwirth **Meets May 31, 2022 - August 19, 2022** Th 5:30pm - 8:46pm	Seats (Total: 5) Location: TBA

ENRE Reliability Engineering Summer 2022

ENRE447 **Fundamentals of Reliability Engineering**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH141.

This course provides a general survey of the techniques of reliability engineering with a focus on quantitative methods. Topics covered include: failure modes and effects analysis, mathematical definition of reliability, probabilistic models to represent failure phenomena, statistical life models for non-repairable components, reliability data analysis, and system reliability models including fault trees, event trees. Students will learn how to apply these techniques to problems related to engineering systems, with example cases for process plants, energy systems and infrastructure.

Contact department for information to register for this course.

ENRE489K **Special Topics in Reliability Engineering; Design for Reliability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in reliability engineering.

ER01	Baldev Raheja **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 10) ONLINE
RE01	Baldev Raheja **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 10) ONLINE
WB11	Baldev Raheja **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 10) ONLINE

ENRE600 **Fundamentals of Failure Mechanisms**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Mechanical Engineering. Cross-listed with: ENMA626. Credit only granted for: ENMA626, ENMA698M, ENMA698R, or ENRE600.

Advanced failure mechanisms in reliability engineering wiil be taught from a basic materials and defects point of view. The methods of predicting the physics of failure of devices, materials, components and systems are reviewed. The main emphasis will be given to basic degradation mechanisms through understanding the physics, chemistry, and mechanics of such mechanisms. Mechanical failures are introduced through understanding fatigue, creep and yielding in materials, devices and components. The principles of cumulative damage and mechanical yielding theory are taught. The concepts of reliability growth, accelerated life testing, environmental testing are introduced. Physical, chemical and thermal related failures are introduced through a basic understanding of degradation mechanisms such as diffusion, electromigration, defects and defect migration. The failure mechanisms in basic material types will be taught. Failure mechanisms observed in real electronic devices and electronic packaging will also be presented. Problems related to manufacturing, and microelectronics will be analyzed. Mechanical failures are emphasized from the point of view of complex fatigue theory.

Contact department for information to register for this course.

ENRE602 **Principles of Reliability Analysis**

Credits: 3 Grading Method: Regular, Audit

Cross-listed with: ENNU652. Credit only granted for: ENRE602 or ENNU652.

Principal methods of reliability analysis, including fault tree and reliability block diagrams; Failure Mode and Effects Analysis (FMEA); event tree construction and evaluation; reliability data collection and analysis; methods of modeling systems for reliability analysis. Focus on problems related to process industries, fossil-fueled power plant availability, and other systems of concern to engineers.

Contact department for information to register for this course.

ENRE642 **Reliability Engineering Management**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Unifying systems perspective of reliability engineering management. Design, development and management of organizations and reliability programs including: management of systems evaluation and test protocols, development of risk management-mitigation processes, and management of functional tasks performed by reliability engineers.

ER01	Frederick Schenkelberg **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 15)
RE01	Frederick Schenkelberg **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

ENRE648 **Special Problems in Reliability Engineering**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

For students who have definite plans for individual study of approved problems. Credit given according to extent of work.

Contact department for information to register for this course.

ENRE648L **Special Problems in Reliability Engineering; Design and Analysis for Resiliency**

Credits: 3

Grading Method: Regular, Audit, Sat-Fail

For students who have definite plans for individual study of approved problems. Credit given according to extent of work.

ER01	Mohammad Modarres, Reuel Smith, Mohammad Pourgol-Mohamad **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 15) ONLINE
RE01	Mohammad Modarres, Reuel Smith, Mohammad Pourgol-Mohamad **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 10) ONLINE
WB11	Mohammad Modarres, Reuel Smith, Mohammad Pourgol-Mohamad **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 5) ONLINE

ENRE655 **Advanced Methods in Reliability Modeling**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENRE602. Credit only granted for: ENRE655 or ENRE665. Formerly: ENRE665.

Bayesian methods and applications, estimation of rare event frequencies, uncertainty analysis and propagation methods, reliability analysis of dynamic systems, analysis of dependent failures, reliability of repairable systems, human reliability analysis methods and theory of logic diagrams and application to systems reliability.

Contact department for information to register for this course.

ENRE799 **Master's Thesis Research**

Credits: 1-6

Grading Method: Sat-Fail

Contact department for information to register for this course.

ENRE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENRE899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENSE Systems Engineering Summer 2022

ENSE699 **Directed Study in Systems Engineering**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Directed study in Systems Engineering.

Contact department for information to register for this course.

ENSE799 **Systems Engineering Thesis; Masters Thesis Research**

(Perm req)

Credits: 1-4 Grading Method: Sat-Fail

The application of systems engineering concepts, principles, and theories will be applied to the Master's Thesis project. Project/thesis work will be defined and selected early in student's program and supervised by a university faculty mentor.

Contact Systems Engineering Office, Rm. 2172 A. V. Williams Bldg. to make arrangements.

0101	Michael Ball **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0102	John Baras **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0103	Mark Austin **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0104	Guangming Zhang **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

0106	Eyad Abed **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0107	Ben Shneiderman **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0112	Satyandra Gupta **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0114	Michael Fu **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0116	Jeffrey Herrmann **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0117	Raymond Adomaitis **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0119	Reza Ghodssi **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0122	David Lovell **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0123	Mumu Xu **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0124	Alireza Khaligh **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

0126	Pamela Abshire **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0127	William Rand **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0128	John Aloimonos **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0130	Yancy Diaz-Mercado **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0201	Abhinav Shrivastava **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0202	Dinesh Manocha **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0203	Derek Paley **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0204	Kenneth Wood **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0205	John Baras **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0216	Jeffrey Herrmann **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

0222	David Lovell **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0223	Mumu Xu **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0228	John Aloimonos **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0229	Shihab Shamma **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0230	Yancy Diaz-Mercado **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

ENST Environmental Science and Technology — Summer 2022

ENST389 **Internship**

(Perm req)

Credits: 3 Grading Method: Sat-Fail

Credit will be granted for practical work carried out by students placed in work environment related to their stated career goals. Students must do an in-depth study in some portion of the work experience and produce a special project or report related to this study. A student work log is also recommended. An evaluation from the external supervisor of the project will be required. Credit arranged with supervising faculty member.

Contact department for information to register for this course.

ENST472 **Capstone**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: CS General Education: DSSP

Restriction: Must be in a major within AGNR-Environmental Science & Technology department; and permission of AGNR-Environmental Science & Technology department. Additional information: This is the pinnacle course for students majoring in ENST and is therefore recommended in one of the students' final semesters.

This capstone course focuses on professional project preparation, presentation, and critical evaluation on environmental science research. Students will develop and present original projects and critique projects presented by others.

0101	William Bowerman **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 1)

ENST489 **Research Experience**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An advanced research-based course in the field of environmental science and technology.

Contact department for information to register for this course.

ENST499 **Special Topics in Environmental Science and Technology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organized to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

0304	Shannon Browne **Meets May 31, 2022 - June 17, 2022** TBA	Seats (Total: 10) ANS 0538
I183	Paul Leisnham **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
I283	Paul Leisnham **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

ENST499P **Special Topics in Environmental Science and Technology; Ecology and Natural Resources Management in Brazil**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organized to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Contact department for information to register for this course.

ENST608 **Research Methods**

Credits: 1-4 Grading Method: Regular, Audit

Development of research viewpoint by detailed study and report on crop and soil research of the Maryland Agriculture Experiment Station or review and discussion of literature on specific agricultural problems or new research techniques.

Contact department for information to register for this course.

ENST689P **Special Topics; Ecology and Natural Resources Management in Brazil**

Credits: 3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

Contact department for information to register for this course.

ENST799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENST898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENST899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENTM Entomology Summer 2022

ENTM735 **Sustainability**

Credits: 3 Grading Method: Regular

Application of the concept of sustainability to both ecosystem services provided by beneficial insects, as well as the management of injurious insects. Ecological functions of insects in the natural and anthropogenic landscape will be illustrated and discussed. In addition, case histories and discussions will focus on themes of sustainability in successful IPM programs, as well as specific practices that lead to sustainable agriculture. The course will conclude with the development of a list of sustainable practices for conserving and managing insects in the landscape.

PLE1	Bill Lamp	Seats (Total: 8)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Applied Entomology. For permission to enroll, contact oes@umd.edu.	
PLEM	Bill Lamp	Seats (Total: 8)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	For permission to enroll, contact oes@umd.edu. Part of Graduate Programs in Applied Entomology.	

ENTM755 **Designing an Urban Garden**

Credits: 3 Grading Method: Regular

This course will expose students to the importance urban gardening, as well as how to start and maintain their own garden. In the process students will learn about pollinators and other arthropods that are beneficial to the environment; their roles, identification, and ways of conserving them.

PLE1	Blessing Ademokoya	Seats (Total: 8)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Applied Entomology. All other graduate students must request permission. Contact oes@umd.edu.	
PLEM	Blessing Ademokoya	Seats (Total: 8)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	For permission to enroll, contact oes@umd.edu. Part of Graduate Programs in Applied Entomology.	

ENTM760 **Insects in the 21st Century**

Credits: 3 Grading Method: Regular

This course will explore the influence and impact of major technological advances in genetics, molecular genetics and biotechnology on the study of insects. Topics will include the use of insects as models for studying human biology and diseases; the use of genetics and genetic technologies to augment existing strategies for managing pest insects and well as the invention of novel management approaches; the use of genetics and genetic technologies in the fields of insect conservation, ecology and evolution.

PLE1	Michelle Bertke	Seats (Total: 8)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Applied Entomology. For permission to enroll, contact oes@umd.edu.	
PLEM	Michelle Bertke	Seats (Total: 8)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	For permission to enroll, contact oes@umd.edu. Part of Graduate Programs in Applied Entomology.	

ENTM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENTM899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

EPIB Epidemiology and Biostatistics Summer 2022

EPIB300 **Biostatistics for Public Health Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. Restriction: Must be in Public Health Science program; and must have earned a minimum of 60 credits. Credit only granted for: EPIB300, EPIB315 or HLTH300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

WB21	Jamie Trevitt	Seats (Total: 70)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

EPIB301 **Epidemiology for Public Health Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Public Health Science program; or must be in Community Health program. And must have earned a minimum of 45 credits. Cross-listed with: HLTH301. Credit only granted for: EPIB301 or HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

WB11	Typhanye Dyer	Seats (Total: 100)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

EPIB315 **Biostatistics for Public Health Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: Minimum grade of C- in EPIB301; or must have completed or be concurrently enrolled in HLTH200. Restriction: Must be in one of the following programs (Public Health Science; Community Health). Cross-listed with: HLTH300. Credit only granted for: EPIB300, EPIB315 or HLTH300. Formerly: EPIB300. Additional information: Course is cross-listed; students should check program advising information to determine which counts for their major. Note that EPIB300 (old number) is still offered for students under previous curriculum.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

WB21	Jamie Trevitt	Seats (Total: 70)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

EPIB399 **Epidemiology and Biostatistics Independent Study**

Credits: 1-3 Grading Method: Regular

The EPIB undergraduate independent study is an opportunity for undergraduates from other departments in the SPH or the university to work with an Epidemiology and Biostatistics faculty member on research or special projects that are based out of EPIB.

0104	Mei-Ling Lee **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0105	Hongjie Liu **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0106	Raul Cruz-Cano **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0107	Olivia Carter-Pokras **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0108	Tianzhou Ma **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0110	Cher Dallal **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0111	Xin He **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0112	Quynh Nguyen **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0113	Typhanye Dyer **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0114	Natalie Slopen **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)

0116	Paul Turner **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0117	Amir Sapkota **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0118	Amy Sapkota **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0119	Donald Milton **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0120	Robin Puett **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0121	Sacoby Wilson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0122	Instructor: TBA **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0204	Mei-Ling Lee **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0205	Hongjie Liu **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0206	Raul Cruz-Cano **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

0207	Olivia Carter-Pokras **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0208	Tianzhou Ma **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0210	Cher Dallal **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0211	Xin He **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0212	Quynh Nguyen **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0213	Typhanye Dyer **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0214	Natalie Slopen **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0216	Paul Turner **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0217	Amir Sapkota **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0218	Amy Sapkota **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

0219	Donald Milton **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0220	Robin Puett **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0221	Sacoby Wilson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0222	Instructor: TBA **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

EPIB489A **Special Topics in Epidemiology or Biostatistics; Bolivia: Global Health Lessons in Ecotourism and Community Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in epidemiology or biostatistics.

Also offered as EPIB689A and MIEH698A. Credit only granted for EPIB489A, EPIB689A, or MIEH698A. Students will have an unparalleled opportunity to learn about the difficulties of promoting health in remote areas with great biodiversity with so many environmental threats, so little economic resources, and at the same time, such a fantastic indigenous local knowledge. Students will complete online readings and short exercises before their departure to learn key concepts and two pre-departure orientation video conference meetings. In country, they will meet with indigenous community members and leading experts in ecohealth, protected areas management and agro- ecology as well as health professionals who provide care in remote areas of the Bolivian Amazon.

Contact department for information to register for this course.

EPIB620 **Chronic Disease Epidemiology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in SPHL602; or EPIB610.

Overview of prevalence and risk factors for major chronic diseases. Discussion of methodological issues unique to specific chronic disease.

WB11	Olivia Carter-Pokras	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

EPIB655 **Longitudinal Data Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB651.

Statistical models for drawing scientific inferences from longitudinal data, longitudinal study design, repeated measures and random effects to account for experimental designs that involve correlated responses, handling of missing data.

WB11	Xin He	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	MW 4:00pm - 7:30pm	ONLINE

EPIB660 **Analysis of National Health Survey Data**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Prerequisite: EPIB650; or permission from Instructor. Recommended: EPIB697.

Provides background on how features such as stratification, clustering, and unequal sample selection probabilities can invalidate the assumptions underlying traditional statistical techniques, those implicitly assuming a simple random sampling with replacement design. Application using the SURVEY family of SAS/STAT procedures (Version 9.4 or later).

WB21	Taylor Lewis	Seats (Total: 20)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

EPIB689A **Advanced Topics in Epidemiology or Biostatistics; Bolivia: Global Health Lessons in Ecotourism and Community Health**

Credits: 3 Grading Method: Regular, Audit

Special topics in epidemiology or biostatistics.

Also offered as EPIB489A and MIEH698A. Credit only granted for EPIB489A, EPIB689A, or MIEH698A. Students will have an unparalleled opportunity to learn about the difficulties of promoting health in remote areas with great biodiversity with so many environmental threats, so little economic resources, and at the same time, such a fantastic indigenous local knowledge. Students will complete online readings and short exercises before their departure to learn key concepts and two pre-departure orientation video conference meetings. In country, they will meet with indigenous community members and leading experts in ecohealth, protected areas management and agro- ecology as well as health professionals who provide care in remote areas of the Bolivian Amazon.

Contact department for information to register for this course.

EPIB695 **Introduction to R for Health Data Analysis**

Credits: 3 Grading Method: Regular, Audit

A hands-on introduction to the statistical package R for health data management and analysis. The first part of the course focuses on basic and essential data manipulation and visualization using R. The second part emphasizes the use of R in statistical analyses, including summarization, correlation, chi-squared test, t-tests, ANOVA, simple and multiple regression. Students will also learn fundamental R language programming to perform user-defined calculations. No previous knowledge of R or of statistical analysis are assumed.

WB21	Yi Feng	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	TuTh 4:00pm - 7:30pm	ONLINE

EPIB697 **Public Health Data Management**

Credits: 3 Grading Method: Regular

Prerequisite: Permission of instructor.

This course is designed to provide students with the expertise needed to effectively manage research data using SAS as the statistical programming language.

WB21	Raul Cruz-Cano	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

EPIB778 **Internship in Public Health**

(Perm req)

Credits: 1-4 Grading Method: Regular

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

Contact department for information to register for this course.

EPIB786 **Capstone Project in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Epidemiology & Biostatistics department.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

EPIB798 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

EPIB799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

EPIB898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

EPIB899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

FIRE First-Year Innovation & Research Experience Summer 2022

FIRE199 **FIRE Research Internship**

Credits: 3 Grading Method: Regular

Summer internship course in the FIRE (First-Year Innovation & Research Experience) program sequence. Students in this course continue with a research stream and further develop discipline-specific training in that lab. This course focuses on the concepts related to the process of independent research including collaboration with peers, communication of ideas, troubleshooting unexpected outcomes, and discipline-specific methodologies.

0101	Catherine Spirito **Meets May 31, 2022 - July 22, 2022** Contact instructor or department for details. *Molecular Diagnostics*	Seats (Total: 8)
0102	Cherisse Hall **Meets May 31, 2022 - July 22, 2022** Contact instructor or department for details. *Bacterial Pathogenesis*	Seats (Total: 8)
0103	Jessica O'Hara **Meets May 31, 2022 - July 22, 2022** Contact instructor or department for details. *Host-Pathogen Interactions*	Seats (Total: 8)
0104	Quira Zeidan **Meets May 31, 2022 - July 22, 2022** Contact instructor or department for details. *CellEx*	Seats (Total: 8)
0105	Halli Weiner **Meets May 31, 2022 - July 22, 2022** Contact instructor or department for details. *Fertility Science*	Seats (Total: 8)
0106	Thanicha Ruangmas **Meets May 31, 2022 - July 22, 2022** Contact instructor or department for details. *Sustainability Analytics*	Seats (Total: 8)
0107	Laura Drew **Meets May 31, 2022 - July 22, 2022** Contact instructor or department for details. *Risk, Justice & Public Health*	Seats (Total: 8)

0108	Cristina Risco **Meets May 31, 2022 - July 22, 2022** Contact instructor or department for details. *Addiction Science*	Seats (Total: 7)
0109	Sharon Colvin **Meets May 31, 2022 - July 22, 2022** Contact instructor or department for details. *Identity Science*	Seats (Total: 8)
0110	Benjamin Huffman **Meets May 31, 2022 - July 22, 2022** Contact instructor or department for details. *Global Development & Design*	Seats (Total: 8)
0112	Danielle Niu **Meets May 31, 2022 - July 22, 2022** Contact instructor or department for details. *Project Greenhouse*	Seats (Total: 8)
0113	Raymond H Tu **Meets May 31, 2022 - July 22, 2022** Contact instructor or department for details. *Capital One Machine Learning*	Seats (Total: 9)
0115	Alexandra Jones **Meets May 31, 2022 - July 22, 2022** Contact instructor or department for details. *Cloud Computing*	Seats (Total: 8)

FMSC Family Science Summer 2022

FMSC110 **Families and Global Health**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSHS, DVCC

Students will explore, define, and study global health, social determinants of health, health inequalities, gender inequality, family violence, and maternal and child health using a global perspective.

WB31	Elisabeth Maring	Seats (Total: 40)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

FMSC111 **Credit Cards and College Students**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Recommended: Moderate level of computer literacy, especially Internet and ELMS. Reliable computer and Internet access. Credit only granted for: FMSC111, FMSC341 or FMSC498D. Formerly: FMSC498D.

Provides college students with factual information about basic money management skills, emphasizing the responsible use of credit, specifically credit cards. Topics will include financial goals, spending plan, wise use of credit, debt management, consumer credit protection, and ID Theft. Online lessons will include video clips and interactive class activities. Students will learn the basics to build a strong financial future.

WB51	Jesse Ketterman	Seats (Total: 35)
	Meets June 21, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

FMSC170 **Modern Families**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

Credit only granted for: FMSC170 or FMSC298F. Formerly: FMSC298F.

Examination of current trends and controversial issues in family life, including issues of marriage, reproductive technologies, adoption, child custody, remarriage, and marital violence.

WB11	Tanner Kilpatrick	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

FMSC190 **Man Up! Where Are The Fathers?**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

An examination of changing fatherhood roles, health, and inequality in diverse families. Focus will be on masculinities and disparities among men by race and class; provider role expectations; and trauma and violence faced by men in contemporary society.

WB31	Kevin Roy	Seats (Total: 80)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

FMSC260 **Couple Relationships**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Covers the different aspects of couple relationships and family life. This includes common problems in couple relationships, and resources to strengthen couple and family relationships. You will also learn about stages of relationships, theories of love and family, policy related to couples and family formation, and how research is conducted with couples and families. Together, we will discuss and explore issues that couples and families face in modern times and will consider how many of these issues have changed due to policy, technology, attitudes, and a variety of other societal factors that impact relationships in the 21st century. You will also learn important methods of strengthening current and future relationships.

WB21	Elise Resnick	Seats (Total: 40)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

FMSC286 **Assisted Reproduction Law and Policy in the US and Brazil**

Credits: 3 | Grading Method: Regular, Pass-Fail

Credit only granted for: FMSC186 or FMSC286. Additional information: This is a global classroom course where students will learn online, meet once a week in a synchronous class on Webex with their Brazilian classmates, and work individually via Webex in small international groups.

In this Global Classroom, U.S. students will work synchronously online with their international partners in Brazil to critically think about cutting-edge ethical, legal, policy and scientific issues in the field of Assisted Reproduction Technologies (ART) in the two countries. This course looks at conventional families created in unconventional ways to examine such topics as sperm and egg donation, in vitro fertilization, surrogacy, reproductive organ transplants and more - while considering the social, cultural, racial, religious, economic, or socioeconomic contexts that influence each. Students will work with their foreign peers in small groups to compare ART in each country and then create proposed legislation for either the U.S. or Brazil which their international group will present online to their colleges and submit to the country's legislators. In so doing, students will be challenged to think critically and see their place in creating actionable change in a global society.

If you are participating in the Global Classrooms section of this course, please disregard information regarding the pre and post departure requirements. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration. Learn more about Global Classrooms: go.umd.edu/gc-umd.

Contact department for information to register for this course.

FMSC290 **Family Economics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: FMSC290 or FMST290. Formerly: FMST290.

Application of economic methodology to study families under various economic situations. Examination of how decisions about marriage, divorce, fertility, consumption and time use are influenced by labor/housing markets, tax structure, social welfare benefits and other economic considerations.

WB51	Manouchehr Mokhtari	Seats (Total: 50)
	Meets June 21, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

FMSC310 **Maternal, Child and Family Health**

Credits: 3

Grading Method: Regular, Pass-Fail

Credit only granted for: FMSC310, FMSC410 or FMSC498A. Formerly: FMSC498A and FMSC410. Additional information: A comprehensive understanding of maternal, child, and family health, with additional emphasis on environmental health, needs assessment and evaluation, enabling students to more effectively address issues in the workplace.

Overview of the major issues in Maternal, Child, and Family Health in the U.S. and the world. The course will cover the social, political, environmental, and economic factors that shape the health of women, children, and families throughout the life course. It will employ the core disciplines of public health -- 1) epidemiology/biostatistics, 2) environmental health, 3) health policy and administration, and 4) social and behavioral health -- to examine these factors. The course introduces specific issues and interventions and places these issues and interventions within their broad sociohistorical context.

WB41	Edmond Shenassa	Seats (Total: 45)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

FMSC330 **Family Theories and Patterns**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHS, DVUP

Restriction: Junior standing or higher.

The objective of this gateway course is to help you understand and apply basic theories and empirical data on family health. The course is designed to provide you with skills to think critically about theories including: Life Course Theory, the Bio-Ecological and Social-Ecological Models, and Systems Theory. We will ask questions about the distinct qualities and intersections of contexts and characteristics that impact the functioning of families. We will apply theory and research to topical issues in family health that are impacted by social structures such as conflict, crisis, migration, incarceration and inequalities.

WB51	Amy Morgan	Seats (Total: 40)
	Meets June 21, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

FMSC332 **Children in Families**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHS

Prerequisite: PSYC100 or FMSC105. Credit only granted for: FMSC332 or FMST332. Formerly: FMST332.

A family life education approach to the study of children and families. Emphasis on the interaction of children with parents, siblings, extended kin, and the community.

WB31	Amy Lewin	Seats (Total: 40)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

FMSC341 **Personal and Family Finance**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSSP

Credit only granted for: FMSC341 or FMST341. Formerly: FMST341.

Individual and family financial strategies with emphasis on financial planning, savings, investments, insurance, income taxes, housing, and use of credit. Planning, analyzing, and controlling financial resources to resolve personal/family financial problems and to attain financial security.

WB11	William Knight	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

WB22	William Knight	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

FMSC383 **Health and Human Services Delivery and Evaluation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FMSC330. Restriction: Must be in a major within SPHL-Family Science department.

Processes of service delivery with special emphasis upon relationships among managers, service providers and clients. The impact of human service systems on families.

WB41	Allyson Pakstis	Seats (Total: 40)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

FMSC386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of SPHL-Family Science department. Restriction: Junior standing or higher. Credit only granted for: FMSC386 or FMST386. Formerly: FMST386.

Contact department for information to register for this course.

FMSC399 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Individualized family and community studies projects of interest to student and faculty.

Contact department for information to register for this course.

FMSC432 **Adult Development and Aging in Families**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; and (SOCY100 or SOCY105). And FMSC332; or must have completed a comparable development course. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC432 or FMST432. Formerly: FMST432.

Theory, research, history, and programming related to adult development and aging in the intergenerational context of family.

WB21	Christine Schull	Seats (Total: 40)	
	Meets July 11, 2022 - August 19, 2022		
	Class time/details on ELMs	ONLINE	

FMSC460 **Violence in Families**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Prerequisite: SOCY100, SOCY105, or PSYC100. Credit only granted for: FMSC460 or FMST460. Formerly: FMST460.

Theories of child, spouse, and elder abuse in the family setting. Emphasis on historical, psychological, sociological and legal trends relating to physical, emotional, and sexual abuse. Introduction to methods for prevention and remediation.

WB31	Christine Schull	Seats (Total: 45)	
	Meets May 31, 2022 - June 17, 2022		
	Class time/details on ELMs	ONLINE	

FMSC477 **Internship and Analysis in Family Science**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FMSC383; and 9 credits in FMSC courses; and permission of SPHL-Family Science department. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC477, FMST347, or FMST477. Formerly: FMST477.

A supervised internship and a seminar requiring analysis. Opportunities to integrate theory and practice including 120 hours of contracted field experience. Summer or fall internship contracts due May 1; Spring contracts due December 1. See department for application procedures.

A planned, supervised internship complemented by analysis. Opportunities to integrate theory and practice. Field experience requires minimum of 120 hours per semester.

WB11	Kendyl Oliver	Seats (Total: 45)	
	Meets May 31, 2022 - August 19, 2022		
	W 9:30am - 11:00am	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

FMSC486 **Law, Public Health and the Cuban Family**

Credits: 4 | Grading Method: Regular, Pass-Fail

Recommended: FMSC487. Jointly offered with: FMSC686. Credit only granted for: FMSC486, FMSC686 or MIEH698B. Additional information: This is a study abroad course which will primarily occur in Cuba. Additionally, the course involves an online component prior to and following the trip.

A short-term summer study abroad course that is a comparative law and public health course. Students travel to Havana, Cuba to compare family problems in a capitalist versus socialist society within the context of legal, public health, social, cultural and economic changes.

Contact department for information to register for this course.

FMSC487 **Family Law**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Designed for students interested in studying the law, public health, and family science, this course provides students with a general overview of family law and the impact on healthy families. The course also includes the study of cutting-edge issues such as marriage equality, assisted reproduction and ethical issues that may arise.

WB41	Kerry Tripp **Meets July 11, 2022 - July 29, 2022** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB51	Kerry Tripp **Meets June 21, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 40) ONLINE

FMSC498 **Special Topics: Family Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Special course topics in family studies.

Individual family studies instruction course on topics of interest to student and faculty.

Contact department for information to register for this course.

FMSC645 **Sexuality: Issues in Family Therapy and Service Delivery**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed a basic course in human sexuality. Restriction: Permission of instructor. Jointly offered with FMSC445. Credit only granted for: FMSC445 or FMSC645.

Typical, dysfunctional, and pathological sexual functioning: effects on individuals, couples, and family systems. Sensitizes students to sexual issues, explores how perceptions or such issues affect work with people, and emphasizes implications for marriage and family therapy.

0101	Marjorie Nightingale **Meets May 31, 2022 - July 8, 2022** TuTh 9:00am - 12:30pm Class time/details on ELMs *Please see ELMS for course details.*	Seats (Total: 20) SPH 0121 ONLINE	

FMSC658 **Supervised Clinical Practice in Couple and Family Therapy**

(Perm req)

Credits: 1-2 Grading Method: Regular, Audit

This course is designed to provide supervision of family, couple, and individual therapy client contact. This course is limited to, and required of, all students admitted to the Couples and Family Therapy (CFT) Program. Supervision utilizes various family systems models and differing methods are employed.

Prerequisite: FMSC650 and Permission of Instructor.

WB11	Patricia Barros **Meets May 31, 2022 - July 8, 2022** W 9:00am - 12:00pm Class time/details on ELMs	Seats (Total: 11) ONLINE ONLINE	 Discussion
WB21	Patricia Barros **Meets July 11, 2022 - August 19, 2022** W 9:00am - 12:00pm Class time/details on ELMs	Seats (Total: 10) ONLINE ONLINE	 Discussion

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FMSC686 **Law, Public Health and the Cuban Family**

Credits: 4 Grading Method: Regular

Jointly offered with: FMSC486. Credit only granted for: FMSC486, FMSC686 or MIEH698B. Additional information: This is a summer short-term faculty-lead study abroad course which will primarily occur in Cuba. Additionally, the course involves an online component prior to and following the trip.

A comparison of family problems in the United States, a capitalist society, with Cuba, a socialist one, as evaluated within the context of legal, public health, social, cultural, and economic changes. The highlight of the course is time spent in Havana, Cuba where students may gain first-hand knowledge of these issues through visits to a hospital, fertility clinic, rural doctor's office, medical school, law offices, museums, and a slave rebellion site and while meeting with the U.S. Ambassador in Cuba, Cuban judges, lawyers, doctors, professors, and health care professionals and the Cuban people as their host families and beyond.

Contact department for information to register for this course.

FMSC689 **Research Internship**

(Perm req)

Credits: 3 Grading Method: Regular

Research experience resulting in a scholarly article suitable for publication in a peer-reviewed journal.

Internship related to student's chosen specialization.

Contact department for information to register for this course.

FMSC698 **Advanced Topics in Family Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Arranged group study on specific topic which may vary from term to term.

Contact department for information to register for this course.

FMSC698V **Advanced Topics in Family Science; Violence in Families**

Credits: 3 Grading Method: Regular, Audit

Arranged group study on specific topic which may vary from term to term.

WB31	Christine Schull	Seats (Total: 45)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

FMSC699 **Independent Study**

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

FMSC789 **Non-Thesis Research**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Non-thesis option research papers.

Contact department for information to register for this course.

FMSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

FMSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

0202	Sandra Quinn	Seats (Total: 3)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

FMSC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

FREN French Summer 2022

FREN103 **Intensive Elementary French**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed FREN102; and must not be a native/fluent speaker of French. Credit only granted for: FREN102 or FREN103.

Covers speaking, reading, writing, listening, and culture of French-speaking world.

WB11	Marie Laverdiere	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	This online section will be partially synchronous. Meeting times will be discussed the first day of class.	

FREN203 **Intensive Intermediate French**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: FREN103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN201 or FREN203.

Covers speaking, reading, writing, listening, and culture of French-speaking world.

WB11	Charlotte Joublot **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB21	Michaelle Vilmont **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE

FREN204 **French Grammar and Composition**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: FREN201 or FREN203; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to native/fluent speakers of French.

Intensive study of French grammar and composition.

WB21	Clara Danos **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 15) ONLINE

FREN211 **French Reading and Conversation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: FREN201 or FREN203. Restriction: Must not be a native/fluent speaker of French.

Practice in spoken French at intermediate level based on readings in a variety of genres. Written homework and exams.

Contact department for information to register for this course.

FREN269A **Special Topics in Study Abroad II; French Songs**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

FREN269F **Special Topics in Study Abroad II; French Conversation I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

FREN269G **Special Topics in Study Abroad II; French Conversation**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

FREN301 **Composition and Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Grammatical analysis, elements of style; range of written genres.

WB21	Theavy Din	Seats (Total: 15)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

FREN311 **Advanced Oral Expression**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Linguistic and thematic analysis of written, audio, and visual texts. Focus on aural and oral skills. Some written assignments and evaluation.

Contact department for information to register for this course.

FREN312 **France Today**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Analysis and discussion of current events and institutions using various French media resources.

Contact department for information to register for this course.

FREN369F **Special Topics in Study Abroad III; Third-Year French I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

FREN369G **Special Topics in Study Abroad III; Third-Year French II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

FREN369I **Special Topics in Study Abroad III; Third-Year French I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

FREN369Y **Special Topics in Study Abroad III; Fourth-Year French I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

FREN399X **Directed Study in French; French Language and Culture on the Mediterranean**

Credits: 3 Grading Method: Regular

Advanced undergraduates develop syllabus, reading list, and course requirements with interested faculty member. Designed for in-depth study of material not offered in regular courses or as expansion of course material. To be planned during semester preceding registration.

Contact department for information to register for this course.

FREN899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

I101	Instructor: TBA	Seats (Total: 1)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

GEOG Geographical Sciences Summer 2022

GEOG110 **The World Today: Global Perspectives**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

The most critical issue facing the world today is the sustainability of both human and physical systems in the 21st century. This class uses the context of regions of the world to explore the 21st century issues of climate change, development, politics, economy, and demography. Each region will be used to highlight aspects of sustainability.

WB61	Rachel Haber	Seats (Total: 35)
	Meets August 1, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

GEOG130 **Development Geography: Environmental & Social Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D General Education: DSHS, DSSP

The geography of economic, social, and environmental well-being and inequality. The course will provide an integrated perspective on the causes, interconnections, and consequences across time and space of, among others, globalization, climate change, poverty, employment, migration and urban growth, agricultural productivity, rural development, policies and international trade. Portraits of selected countries and regions will be developed.

WB21	Ipsita Kumar	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

GEOG140 **Natural Disasters: Earthquakes, Floods, and Fires**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

Catastrophic Environmental Events (CCE) that are becoming more common in this time of global environmental change and it is essential that today's students be equipped with the knowledge and skills to be leaders as we, as a society, understand the upheaval that these CCEs are causing. Students will examine how CEEs shape human society and ecosystem from the interdisciplinary perspective afforded by the field of Geography. Students will use the latest geographic science concepts and techniques in exploring these events. Using satellite imagery they will gain a multi-scale perspective of the ecological and societal aspects of the events.

0401	Maria Tonellato **Meets July 11, 2022 - July 29, 2022** MTuWThF 10:00am - 1:00pm Th 1:30pm - 2:20pm	Seats (Total: 20) TYD 0117 TYD 0117	 Discussion
WB11	Maria Tonellato **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 50) ONLINE	
WB21	Guangxiao Hu **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 50) ONLINE	
YS41	Maria Tonellato **Meets July 11, 2022 - July 29, 2022** MTuWThF 10:00am - 1:00pm Th 1:30pm - 2:20pm *Restricted to students in Terp Young Scholars.*	Seats (Total: 11) TYD 0117 TYD 0117	 Discussion

GEOG158G **Special Topics in Study Abroad I; The Geography of Grenada**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GEOG172 **Earth From Space**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS, SCIS

Earth observations from space enable the mapping and monitoring of our changing planet. This survey course reviews current observational capabilities and examines scientific applications in quantifying global environmental change. Drivers and outcomes of key dynamics will be illustrated and discussed, including sea and continental ice loss, deforestation, ocean warming, urbanization, agricultural expansion and intensification, and vegetation response to climate change.

WB41	Rachel Marks	Seats (Total: 20)
	Meets July 11, 2022 - July 29, 2022	
	MTuWThF 12:00pm - 2:30pm	ONLINE

GEOG201 **Geography of Environmental Systems**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with GEOG211)

A systematic introduction to the processes and associated forms of the atmosphere and earth's surfaces emphasizing the interaction between climatology, hydrology and geomorphology.

WB11	Yuhao Wang	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

GEOG202 **Introduction to Human Geography**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVCC

Introduction to what geographers do and how they do it. Systematic study of issues regarding social and cultural systems from a global to a local scale. Looks at the distribution of these variables and answers the question "Why here, and not there"?

WB21	Joy Adams	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

GEOG211 **Geography of Environmental Systems Laboratory**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in GEOL120, GEOL100, or GEOG201.

A laboratory course to accompany GEOG 201. Analysis of the components of the earth's energy balance using basic instrumentation; weather map interpretation; soil analysis; the application of map and air photo interpretation techniques to landform analysis.

WB11	Baobao Liu	Seats (Total: 40)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	

GEOG272 **Introduction to Earth Observation Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: GEOG272 or GEOG372. Formerly: GEOG372.

Concepts and principles of Earth observation and remote sensing in relation to photographic, thermal infrared and radar imaging. Methods of obtaining quantitative information from remotely-sensed images. Interpretation of remotely-sensed images emphasizing the study of spatial and environmental relationships.

WB11	Xueyuan Gao	Seats (Total: 35)	
	Meets May 31, 2022 - July 8, 2022		
	TuTh 4:00pm - 5:50pm	ONLINE	
	TuTh 6:00pm - 8:00pm	ONLINE	Lab

GEOG276 **Principles of Python Programming and Geocomputing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Introduces conceptual and practical aspects of scientific computing using the Python programming language. The main focus is on developing proficiency for the basic elements of the development environment, foundational syntax including variables, logical operators, looping, conditional statements, nesting, and common programming patterns for mathematical and textual computing. In addition, essential data structures and functionality for scientific computing, such as arrays, dataframes, and data visualization will be introduced. Throughout the course, students will also become exposed to various applications in the domain of the social and environmental sciences.

WB21	Rachel Marks	Seats (Total: 40)	
	Meets July 11, 2022 - August 19, 2022		
	MW 6:00pm - 9:30pm	ONLINE	

GEOG306 **Introduction to Quantitative Methods for the Geographical Environmental Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201.

Essentials in the quantitative analysis of spatial and other data, with a particular emphasis on statistics and programming. Topics include data display, data description and summary, statistical inference and significance tests, analysis of variance, correlation, regression, and some advanced concepts, such as matrix methods, principal component analysis, and spatial statistics. Students will develop expertise in data analysis using advanced statistical software.

Students must pay a $40.00 laboratory materials fee.

WB21	Naijun Zhou	Seats (Total: 40)
	Meets July 11, 2022 - August 19, 2022	
	MW 6:30pm - 10:00pm	ONLINE

GEOG328M **Topics in Regional Geography; Geography of the Southern Caribbean**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics in regional geography.

Contact department for information to register for this course.

GEOG328P **Topics in Regional Geography; The Geography of Puerto Rico**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics in regional geography.

Contact department for information to register for this course.

GEOG330 **As the World Turns: Society and Sustainability in a Time of Great Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP, SCIS

Credit only granted for: GEOG330, GEOG360, or GEOG362. Formerly: GEOG362.

Cultural geography course on society and sustainability. Culture is the basic building block that is key to sustainability of societies. Course will cover sustainability of societies on different scales, examining local, regional, and worldwide issues. Sustainability will be examined as a key element of environmental sustainability. How societies adjust to rapid world change will be examined as a positive and/or negative factor in sustainability.

WB31	Rachel Haber	Seats (Total: 50)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

WB42	Kaihui Song	Seats (Total: 50)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

GEOG358A **Special Topics in Study Abroad III; Croatia: At the Doorsteps of the European Union- Leaving Behind the Memories**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GEOG358B **Special Topics in Study Abroad III; Investigating the Geographical Impacts of Urbanization in China**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GEOG358C **Special Topics in Study Abroad III; China: Summer Honors Research Program**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GEOG358D **Special Topics in Study Abroad III; Croatia: From War and Communism to the EU Membership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GEOG373 **Geographic Information Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Characteristics and organization of geographic data; creation and use of digital geospatial databases; metadata; spatial data models for thematic mapping and map analysis; use of geographic information system in society, government, and business. Practical training with use of advanced software and geographic databases.

Students must pay a $40.00 laboratory materials fee.

WB11	Naijun Zhou **Meets May 31, 2022 - July 8, 2022** MW 6:30pm - 10:00pm	Seats (Total: 45) ONLINE
WB21	Yuhao Wang **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 45) ONLINE

GEOG384 **Internship in Geography I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390). Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

Contact department for information to register for this course.

GEOG384H **Internship in Geography I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390). Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

Prerequisite: permission of department.

Contact department for information to register for this course.

GEOG385 **Internship in Geography II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

Contact department for information to register for this course.

GEOG385H **Internship in Geography II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

Prerequisite: permission of department.

Contact department for information to register for this course.

GEOG398 **Special Topics in Geography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introductory course dealing with special topics in geography.

Contact department for information to register for this course.

GEOG398H **Special Topics in Geography**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An introductory course dealing with special topics in geography.

Prerequisite: permission of department.

Contact department for information to register for this course.

GEOG398W **Special Topics in Geography; Geographies of Terrorism: Violence, Terror, and Space**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introductory course dealing with special topics in geography.

Contemporary geographers study place and space and all the complex and dynamic relationships within, including terrorism. Increasingly, the study of terrorism requires a multiplicity of conceptual approaches and methods of inquiry to advance effective preventive and counter violent extremism practices. This course provides an introduction to the scope and methods geographers employ to address a fundamental question in the geography of terrorism: the "why of where?" Cross-listed with BSST338W.

WB21	Samuel Henkin	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

GEOG473 **Geographic Information Systems and Spatial Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG306 and GEOG373; or students who have taken courses with comparable content may contact the department. Credit only granted for: GEOG473 or GEOG482. Formerly: GEOG482.

Analytical uses of geographic information systems; data models for building geographic data bases; types of geographic data and spatial problems; practical experience using advanced software for thematic domains such as terrain analysis, land suitability modeling, demographic analysis, and transportation studies.

WB41	Naijun Zhou	Seats (Total: 30)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

GEOG498 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study under individual guidance.

Contact department for information to register for this course.

GEOG498H **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study under individual guidance.

Prerequisite: permission of department.

0101	Instructor: TBA **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0201	Instructor: TBA **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

GEOG579 **Introduction to Remote Sensing and GIS; Introduction to GIS**

Credits: 3 Grading Method: Regular, Audit

Introduction to remote sensing and geographic information systems. Topics include methods of obtaining quantitative information from remotely sensed images, interpretation of remotely sensed images for spatial and environmental relationships, characteristics and organization of geographic data, including spatial data models for thematic mapping and map analysis and use of GIS in society, government, and business. Practical experience with remote sensing software and GIS.

Additionally, special advanced students are eligible to register without department permission.

PGI1	Rejanne Le Bivic **Meets May 31, 2022 - August 19, 2022** MTu 5:30pm - 6:50pm MTu 7:00pm - 8:00pm *Must be in Graduate Programs in Geospatial Intelligence.*	Seats (Total: 15) LEF 1171 LEF 1171	 Lab
PGS1	Rejanne Le Bivic **Meets May 31, 2022 - August 19, 2022** MTu 5:30pm - 6:50pm MTu 7:00pm - 8:00pm *Must be in Graduate Programs in Geospatial Information Sciences.*	Seats (Total: 15) LEF 1171 LEF 1171	 Lab
PLG1	Rejanne Le Bivic **Meets May 31, 2022 - August 19, 2022** MTu 5:30pm - 6:50pm MTu 7:00pm - 8:00pm *Must be in Geospatial Information Sciences Program - Online. For permission to enroll, contact oes@umd.edu.*	Seats (Total: 10) ONLINE ONLINE	 Lab

PLGM	Rejanne Le Bivic	Seats (Total: 10)	
	Meets May 31, 2022 - August 19, 2022		
	MTu 5:30pm - 6:50pm	ONLINE	
	MTu 7:00pm - 8:00pm	ONLINE	Lab
	For permission to enroll, contact oes@umd.edu. Part of Graduate Programs in Geospatial Information Sciences.		
PLI1	Rejanne Le Bivic	Seats (Total: 10)	
	Meets May 31, 2022 - August 19, 2022		
	MTu 5:30pm - 6:50pm	ONLINE	
	MTu 7:00pm - 8:00pm	ONLINE	Lab
	Must be in Geospatial Intelligence Program - Online. For permission to enroll, contact oes@umd.edu.		

GEOG603 **Masters Research Tutorial**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOG600. Restriction: Permission of BSOS-Geography department. Credit only granted for: GEOG603 or GEOG610. Formerly: GEOG610.

Development of Masters scholarly paper topic, critical literature review, formulation of geographical approach to research methodology. Individual meetings with faculty. Comprehensive exam before the end of the semester.

Contact department for information to register for this course.

GEOG656 **Advanced Programming for GIS**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOG653. Restriction: Must be in Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

Programming and scripting for intermediate GIS users. The fundamental concepts of computer programming will be introduced within the Geoprocessing framework in ArcGIS primarily using Python. Concepts of object-oriented programming and scripting will be presented. Students will develop skills in programming techniques to explore, manipulate and model spatial data using the Geoprocessor methods.

Students must pay a $40 laboratory materials fee.

PGI1	Jonathan Resop	Seats (Total: 15)	
	Meets May 31, 2022 - August 19, 2022		
	W 5:30pm - 8:00pm	LEF 1158	
	Th 5:30pm - 8:00pm	LEF 1158	Lab
	Must be in Graduate Programs in Geospatial Intelligence.		
PGS1	Jonathan Resop	Seats (Total: 35)	
	Meets May 31, 2022 - August 19, 2022		
	W 5:30pm - 8:00pm	LEF 1158	
	Th 5:30pm - 8:00pm	LEF 1158	Lab
	Must be in Graduate Programs in Geospatial Information Sciences.		
PLG1	Jonathan Resop	Seats (Total: 25)	
	Meets May 31, 2022 - August 19, 2022		
	W 5:30pm - 8:00pm	ONLINE	
	Th 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Geospatial Information Sciences Program - Online. For permission to enroll, contact oes@umd.edu.		
PLGM	Jonathan Resop	Seats (Total: 10)	
	Meets May 31, 2022 - August 19, 2022		
	W 5:30pm - 8:00pm	ONLINE	
	Th 5:30pm - 8:00pm	ONLINE	Lab
	For permission to enroll, contact oes@umd.edu. Part of Graduate Programs in Geospatial Information Sciences.		
PLI1	Jonathan Resop	Seats (Total: 10)	
	Meets May 31, 2022 - August 19, 2022		
	W 5:30pm - 8:00pm	ONLINE	
	Th 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Geospatial Intelligence Program - Online. For permission to enroll, contact oes@umd.edu.		

GEOG657 **Web Programming**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOG653. Restriction: Must be in Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Geospatial Information Sciences program. Credit only granted for: GEOG657 or GEOG788R. Formerly: GEOG788R.

Intermediate course designed to teach students the techniques for Web development, particularly creating dynamic and data-driven Web applications. Introduces a high-level, object-oriented programming language such as VB.Net and the designing, coding, debugging, testing, and documenting for the development of Web-based applications. Other popular Web development tools such as DHTML, CSS and PHP are also covered.

PGS1	Ritvik Sahajpal	Seats (Total: 15)	
	Meets May 31, 2022 - August 19, 2022		
	M 5:30pm - 8:00pm	LEF 1220	
	Tu 5:30pm - 8:00pm	LEF 1220	Lab
	Must be in Graduate Programs in Geospatial Information Sciences.		
PLG1	Ritvik Sahajpal	Seats (Total: 10)	
	Meets May 31, 2022 - August 19, 2022		
	M 5:30pm - 8:00pm	ONLINE	
	Tu 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Geospatial Information Sciences Program - Online. For permission to enroll, contact oes@umd.edu.		
PLGM	Ritvik Sahajpal	Seats (Total: 10)	
	Meets May 31, 2022 - August 19, 2022		
	M 5:30pm - 8:00pm	ONLINE	
	Tu 5:30pm - 8:00pm	ONLINE	Lab
	For permission to enroll, contact oes@umd.edu. Part of Graduate Programs in Geospatial Information Sciences.		

GEOG660 **Advanced Remote Sensing Using Lidar**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOG652. Recommended: GEOG656 and GEOG654. Credit only granted for: GEOG660 or GEOG788G. Formerly: GEOG788G.

Lidar, also known as laser scanning, is an active remote sensing tool that can produce high-resolution point clouds. Lidar is being applied to problems such as terrain modeling, biomass estimation, change detection, feature extraction, and measuring tree canopy. Topics covered are fundamentals of lidar, current developments in lidar technology, and different applications where lidar is being used. Students will get hands-on learning about lidar data management, processing, and analysis.

PGI1	Rejanne Le Bivic	Seats (Total: 15)	
	Meets May 31, 2022 - August 19, 2022		
	Tu 11:30am - 1:50pm	LEF 1171	
	Tu 2:00pm - 4:00pm	LEF 1171	Lab
	Must be in Graduate Programs in Geospatial Intelligence.		
PGS1	Rejanne Le Bivic	Seats (Total: 25)	
	Meets May 31, 2022 - August 19, 2022		
	Tu 11:30am - 1:50pm	LEF 1171	
	Tu 2:00pm - 4:00pm	LEF 1171	Lab
	Must be in Graduate Programs in Geospatial Information Sciences.		
PLG1	Rejanne Le Bivic	Seats (Total: 10)	
	Meets May 31, 2022 - August 19, 2022		
	Tu 11:30am - 1:50pm	ONLINE	
	Tu 2:00pm - 4:00pm	ONLINE	Lab
	Must be in Graduate Programs in Geospatial Information Sciences, Online.		
PLG2	Rejanne Le Bivic	Seats (Total: 10)	
	Meets May 31, 2022 - August 19, 2022		
	Tu 11:30am - 1:50pm	ONLINE	
	Tu 2:00pm - 4:00pm	ONLINE	Lab
	Must be in Geospatial Information Sciences Program - Online. For permission to enroll, contact oes@umd.edu. Section open to NOAA cohort.		
PLGM	Rejanne Le Bivic	Seats (Total: 10)	
	Meets May 31, 2022 - August 19, 2022		
	Tu 11:30am - 1:50pm	ONLINE	
	Tu 2:00pm - 4:00pm	ONLINE	Lab
	For permission to enroll, contact oes@umd.edu. Part of Graduate Programs in Geospatial Information Sciences.		
PLI1	Rejanne Le Bivic	Seats (Total: 10)	
	Meets May 31, 2022 - August 19, 2022		
	Tu 11:30am - 1:50pm	ONLINE	
	Tu 2:00pm - 4:00pm	ONLINE	Lab
	Must be in Geospatial Intelligence Program - Online. For permission to enroll, contact oes@umd.edu.		

GEOG666 **Drones for Data Collection**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOG646 or GEOG656. Restriction: Must be in Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences. Credit only granted for: GEOG688E or GEOG666. Formerly: GEOG688E.

Topics covered in this class include: how to prepare students to obtain their FAA Remote Pilot License, understand how to pick drone systems for a data need, and utilize Pix4D to process drone imagery. Before talking about data students will learn about drone and aviation specific laws that will affect them while carrying out operations. Once legal limitations of drone flights have been covered the course will shift toward learning how to select a drone system based on specifications of the equipment and needs of the project and flying. Students will then move on to data processing utilizing Pix4D, Python, and Bash to clean data and automate processing.

PLG1	Michael Beavers	Seats (Total: 20)	
	Meets May 31, 2022 - August 19, 2022		
	M 5:30pm - 8:00pm	ONLINE	
	Tu 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Geospatial Information Sciences Program - Online. For permission to enroll, contact oes@umd.edu.		
PLGM	Michael Beavers	Seats (Total: 10)	
	Meets May 31, 2022 - August 19, 2022		
	M 5:30pm - 8:00pm	ONLINE	
	Tu 5:30pm - 8:00pm	ONLINE	Lab
	For permission to enroll, contact oes@umd.edu. Part of Graduate Programs in Geospatial Information Sciences.		
PLI1	Michael Beavers	Seats (Total: 20)	
	Meets May 31, 2022 - August 19, 2022		
	M 5:30pm - 8:00pm	ONLINE	
	Tu 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Geospatial Intelligence Program - Online. For permission to enroll, contact oes@umd.edu.		

GEOG687 **Applied GEOINT- Regional Geostrategic Issues**

Credits: 3 Grading Method: Regular, Audit

Applies a geospatial intelligence (GEOINT) lens when examining the political, military, economic and cultural effects of geography in historical and contemporary terms: specific emphasis is placed on the role of geography in the formulation of regional, e.g., Africa, military/political policy in land power, sea power, and air power. Comprehensive geopolitical theories will be incorporated with geospatial technologies as analytical tools in this course.

PGI1	Jonathon Hathaway	Seats (Total: 15)	
	Meets May 31, 2022 - August 19, 2022		
	M 5:30pm - 8:00pm	LEF 1106	
	Tu 5:30pm - 8:00pm	LEF 1106	Lab
	Must be in Graduate Programs in Geospatial Intelligence.		
PLI1	Jonathon Hathaway	Seats (Total: 15)	
	Meets May 31, 2022 - August 19, 2022		
	M 5:30pm - 8:00pm	ONLINE	
	Tu 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Geospatial Intelligence Program - Online. For permission to enroll, contact oes@umd.edu.		
PLIM	Jonathon Hathaway	Seats (Total: 10)	
	Meets May 31, 2022 - August 19, 2022		
	M 5:30pm - 8:00pm	ONLINE	
	Tu 5:30pm - 8:00pm	ONLINE	Lab
	For permission to enroll, contact oes@umd.edu. Part of Graduate Programs in Geospatial Intelligence.		

GEOG788 **Selected Topics in Geography**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Readings and discussion on selected topics in the field of geography.

Contact department for information to register for this course.

GEOG789 **Independent Readings**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Independent reading as arranged between a graduate faculty member and graduate student.

Contact department to make arrangements.

Contact department for information to register for this course.

GEOG790 **Internship in Geography**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Field experience in the student's specialty in a Federal, state, or local agency or private business. Research paper required.

Contact department to make arrangements.

Contact department for information to register for this course.

GEOG799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

GEOG898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

GEOG899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

GEOL Geology Summer 2022

GEOL100 **Physical Geology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNL (if taken with GEOL110), DSNS

Credit only granted for: GEOL100 or GEOL120. Additional information: CORE Distributive Studies Physical Science Laboratory Course only when taken concurrently with GEOL 110.

A general survey of the rocks and minerals composing the earth, its surface features and the agents that form them, and the dynamic forces of plate tectonics.

WB11	Tracey Centorbi	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

GEOL110 **Physical Geology Laboratory**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in GEOL120 or GEOL100. Additional information: CORE Distributive Studies Physical Science Laboratory Course only when taken concurrently with GEOL 100.

The basic materials and tools of physical geology stressing familiarization with rocks and minerals and the use of maps in geologic interpretations.

WB11	Tracey Centorbi	Seats (Total: 25)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	Lab

GEOL123 **Causes and Consequences of Global Change**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

CORE: PS

General Education: DSNS, SCIS

Cross-listed with: AOSC123. Credit only granted for: AOSC123, GEOG123, GEOL123, or METO123.

Study of the major components of Earth's climate system and climate change history. Discussion of 21st century climate change prediction, mitigation and adaptation efforts.

WB21	Samantha Kemper	Seats (Total: 40)
	Meets July 11, 2022 - August 19, 2022	
	MTuWThF 12:00pm - 1:20pm	ONLINE

GEOL499 **Special Problems in Geology**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Intensive study of a special geologic subject or technique selected after consultation with instructor. Intended to provide training or instruction not available in other courses which will aid the student's development in his or her field of major interest.

Contact department for information to register for this course.

GEOL798 **Seminar in Geology**

Credits: 1-3

Grading Method: Regular, Audit

Discussion of special topics in current literature in all phases of geology.

Contact department for information to register for this course.

GEOL799 **Master's Thesis Research**

Credits: 1-4 Grading Method: Sat-Fail

Contact department for information to register for this course.

GEOL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

GEOL899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

GERM Germanic Studies Summer 2022

GERM103 **Intensive Elementary German**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed GERM102; and must not be a fluent/native speaker of German. Credit only granted for: GERM102 or GERM103.

Covers speaking, reading, writing, listening, and culture of German-speaking world.

WB11	Regina Ianozi	Seats (Total: 15)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

GERM203 **Intensive Intermediate German**

Credits: 4 Grading Method: Regular CORE: HO

Prerequisite: GERM103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed GERM201; and must not have completed GERM202; and must not be a fluent/native speaker of German. Credit only granted for: GERM202 or GERM203.

Covers speaking, reading, writing, listening, and culture of German-speaking world.

WB21	Regina Ianozi	Seats (Total: 15)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

GERM255 **Once Upon a Time: Fairy Tales of the Brothers Grimm**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSHU

Additional information: Course is taught in English.

A critical examination of how fairy tales and folklore pervade and influence diverse facets of Western culture, ranging from issues of politics and national identity, ethics and morality, violence and fear, education and pedagogy, to gender and sexuality in the establishment and regulation of social norms. Taking the German tales collected by Jacob and Wilhelm Grimm as its focal point, the magical and often terrifying world of fairy tales within the German, European, and American cultural traditions from Romanticism to today will be explored.

WB21	Julie Koser	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

GERM269A **Special Topics in Study Abroad II; Elementary German I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GERM269B **Special Topics in Study Abroad II; Elementary German II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GERM301 **Conversation and Composition I: The German-Speaking World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GERM204; or students who have taken courses with comparable content may contact the department.

Practice in contemporary spoken and written German. Systematic review of grammar, and exercises in composition. Emphasis on cultural contrasts in the German-speaking world.

Contact department for information to register for this course.

GERM302 **Conversation and Composition II: Current Topics in German-Speaking Society**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GERM301; or students who have taken courses with comparable content may contact the department.

Further practice in contemporary spoken and written German. Contemporary social, political, and cultural themes.

Contact department for information to register for this course.

GERM369C **Special Topics in Study Abroad III; German Composition I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GERM369D **Special Topics in Study Abroad III; German Composition II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GVPT Government and Politics Summer 2022

GVPT170 **American Government**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

A comprehensive study of national government in the United States.

WB11	Florian Gawehns	Seats (Total: 50)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

GVPT200 **International Political Relations**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVUP

A study of the major factors underlying international relations, the causes of conflict and cooperation among international actors, the role of international institutions, the interactions of domestic and foreign policies, and major issues in security, economy and the environment.

0401	Kee Hyun Park **Meets July 11, 2022 - July 29, 2022** MTuWThF 10:00am - 1:00pm	Seats (Total: 15) TYD 0102
WB11	Madeline Fleishman **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 50) ONLINE
YS41	Kee Hyun Park **Meets July 11, 2022 - July 29, 2022** MTuWThF 10:00am - 1:00pm *Restricted to students in Terp Young Scholars.*	Seats (Total: 17) TYD 0102

GVPT201 **Scope and Methods for Political Science Research**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Credit only granted for: GVPT100 or GVPT201. Formerly: GVPT100.

An introduction to empirical research in political science.

WB11	Rithvik Yarlagadda **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 50) ONLINE

GVPT241 **The Study of Political Philosophy: Ancient and Modern**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Examines some of the salient continuities and breaks between the ancient and modern traditions in Western political philosophy.

WB11	Seo Chung **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 50) ONLINE

GVPT258B **Introduction to Political Science Topics in Study Abroad; Enemy Within: Spies and Espionage in the Cold War**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258C **Introduction to Political Science Topics in Study Abroad; Government and Politics in China**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT282 **Politics and the Developing World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

A study of the domestic governmental institutions; processes and problems such as conflict and economic development; and the socio-economic environments that are common to developing countries of Africa, the Middle East, Asia, and Latin America.

WB21	Youngjoon Lee	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

GVPT306 **Global Environmental Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200. Restriction: Must be in one of the following programs (Government & Politics; Government & Politics: International Relations) ; or permission of BSOS-Government & Politics department.

Focus on three processes of international environmental policy development- identifying problems, negotiating solutions, and implementing agreements- through a range of case studies, including global climate change.

Open to all majors for summer term.

WB11	Jennifer Wallace	Seats (Total: 49)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

GVPT309J **Topics in International Relations; International Law and Justice**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The study of topics in international relations.

An introduction to and examination of various forms of international law and institutions that implement such laws. Students will investigate topics such as why and how states form international law, what aspects of international relations are impacted by international law, and how to assess the effectiveness of international law and justice institutions.

WB21	Ryan Frazier	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

GVPT309M **Topics in International Relations; Egypt and Israel**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The study of topics in international relations.

Contact department for information to register for this course.

GVPT309N **Topics in International Relations; Scandinavia: Political Conflict: Past, Present and Future**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The study of topics in international relations.

Contact department for information to register for this course.

GVPT309P **Topics in International Relations; Foreign Policy and Public Opinion**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The study of topics in international relations.

This course will focus on the relationship between American public opinion and U.S. foreign policy. The course is structured around three primary questions: Does the American public have coherent attitudes about U.S. foreign Policy? If so, what is the content of those attitudes? Do casualties matter, if so how? We will address these questions through a review of the literature on American public opinion and foreign policy.

WB31	Autumn Perkey	Seats (Total: 50)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

GVPT354 **International Development and Conflict Management**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Sophomore standing or higher; and must be in one of the following minor programs (International Development and Conflict Management; Global Engineering Leadership; Global Poverty, Global Terrorism Studies) and have permission of the Center for International Development, or must be in the Government and Politics major with permission of the Government and Politics department. Additional information: Students enrolled in MIDCM are expected to take the course during the Fall semester after admission to the program.

Serves as the gateway course for the Minor in International Development and Conflict Management. Provides an introductory foundation in the theory and practice of international development and conflict management. Introduces the structures, key players, intersections, and main trends in the evolution of the fields. Explores causal factors that drive economic growth, poverty, inequality, and conflict, as well as the resources, methods, and tools available to track and address these issues.

Course is open to all majors for Summer 2022.

WB11	Daniel Tuke	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

GVPT358A **Study Abroad Seminar in Political Science; Migration and Multiculturalism in Europe**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358M **Study Abroad Seminar in Political Science; Conflict and Peace in the Mediterranean**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT359B **Topics in Comparative Politics; Dictators Gone Global**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The study of topics in comparative politics.

In this course, we will explore whether or not we're experiencing a democratic recession in which the norms of dictatorship are becoming more widely accepted. We'll ask how authoritarian regimes are working to influence the world in order to make it safe for dictatorship. Some of the specific tactics we'll examine include the distribution of misinformation on social media, the hiring of foreign lobbying firms, and even assassinating dissidents living in exile. We'll ask whether these tactics are new or recycled, and whether aggressive actions by the world's dictators constitute an existential threat to democracy.

WB61	Connor Kopchick	Seats (Total: 50)
	Meets August 1, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

GVPT368G **Education Equity in Crisis: Cross Cultural Exploration of Corporate Social Responsibility During the COVID 19 Pandemic**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Participants must have a minimum GPA of 2.50. Cross-listed with: AAPS300. Credit only granted for: AAPS300 or GVPT368G.

Explores potential barriers to education equity relative to the experience of marginalized communities in the United States and Ghana during the COVID-19 global pandemic. Corporate initiatives to support access to education, especially through the provision of financial or technical resources to enable teaching and learning in a remote environment will be considered and will inform a cross-cultural understanding of the practice of Corporate Social Responsibility (CSR).

Contact department for information to register for this course.

GVPT379R **Topics in American Politics; The Rise of the ALT-Right**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in American politics.

Seminar discussing the recent history of far-right fringe groups and their rise to prevalence on the political stage. We will discuss the resurgence of white nationalist movements and the ways in which social media has allowed them to bring those ideologies to the main stage.

WB41	Brittany Frechette	Seats (Total: 50)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

GVPT386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Government & Politics department; and junior standing or higher.

Contact department for information to register for this course.

GVPT388 **Topical Investigations**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Contact department for information to register for this course.

GVPT389 **Experiential Learning II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Experiential credit for working in government & politics related internships, research, and teaching opportunities.

Contact department for information to register for this course.

GVPT399B **Seminar in Government and Politics; Salzburg Seminar: Global Change, Global Cooperation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399J **Seminar in Government and Politics; Global Change, Global Cooperation, Global News**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399Q **Seminar in Government and Politics; Security and Defense Policy in the European Union**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT458R **Special Topics in Study Abroad IV; Terrorism and Counterterrorism in International Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

GVPT849 **Readings in Government and Politics**

Credits: 3 Grading Method: Regular, Audit

Guided readings and discussions on selected topics in political science.

Contact department for information to register for this course.

GVPT898 **Pre-Candidacy Research; Pre-Candidacy Research**

Credits: 1-3 Grading Method: Regular

Guided readings and discussions on selected topics in political science.

Contact department for information to register for this course.

GVPT899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

HESI Higher Ed, Student Affairs, and International Ed Policy Summer 2022

HESI217 **Introduction to Student Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Freshman standing; or sophomore standing.

Introduction to leadership theories, concepts, and skills. Completion of personal and leadership self-assessments, values exploration, and small group application.

Students must pay a $32 materials fee. Contact leadershipstudies@umd.edu with questions.

0401	Shakia Asamoah, Kwesi Sam	Seats (Total: 35)	
	Meets July 11, 2022 - July 29, 2022		
	TuTh 10:00am - 12:00pm	AJC 2119	
	Class time/details on ELMs	ONLINE	Discussion
	This section is primarily being offered for students enrolled in the Incentive Awards Program. Students not a part of this program are welcome to join, but should contact leadershipstudies@umd.edu to discuss registration.		

HESI318A **Applied Contextual Leadership; Leadership and Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

This course invites students to explore leadership through lessons found in movies and films. Students will watch a number of movies across a variety of genres, make connections to leadership readings and concepts,and apply lessons to their personal leadership experiences. Contact leadershipstudies@umd.edu with questions.

WB11	Jia Zheng	Seats (Total: 20)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	

HESI318E **Applied Contextual Leadership; Exploring Strengths and Values for Effective Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Students will explore strengths and values of individuals and teams to better understand how to engage in effective, collaborative leadership. Tools such as the Gallup Organization's CliftonStrengths Assessment will be used with a critical lens. Themes of teamwork, problem-solving, diversity and inclusion, coaching others, and conflict resolution are woven throughout the course. Contact leadershipstudies@umd.edu with questions.

WB41	Noel Kuriakos	Seats (Total: 5)	
	Meets July 11, 2022 - July 29, 2022		
	MW 10:00am - 12:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

YW41	Noel Kuriakos	Seats (Total: 7)	
	Meets July 11, 2022 - July 29, 2022		
	MW 10:00am - 12:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
	Restricted to students in Terp Young Scholars.		

HESI418 **Special Topics in Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

Contact department for information to register for this course.

HESI489 **Field Experiences in Higher Education, Student Affairs, and International Education Policy**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Planned field experience in education and community related activities. Credit not to be granted for experiences accrued prior to registration.

0113	Melissa Rocco	Seats (Total: 1)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0213	Melissa Rocco	Seats (Total: 1)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

HESP Hearing and Speech Sciences Summer 2022

HESP202 **Introduction to Hearing and Speech Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introduction to communication sciences and disorders; a survey of the bases of normal speech, language and hearing ability, major forms of communicative disorders and their treatment.

WB11	Melissa Leviten	Seats (Total: 20)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	

HESP307 **Speech & Hearing Science**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HESP303.

Human hearing is exquisitely sensitive, allowing us to hear extremely faint sounds, to follow the sounds of a friend's voice in a loud party, and to appreciate subtle differences between words in the language. This course provides an introduction to the basic physics of sound, the acoustic properties of the sounds of speech, and the mechanisms by which those sounds are perceived by the listener.

PBH1	Kimberly Jenkins	Seats (Total: 40)	
	Meets May 31, 2022 - August 19, 2022		
	M 6:00pm - 9:00pm	JMZ 2206	
	Class time/details on ELMs	ONLINE	Discussion
	Must be in the Hearing & Speech in the Evening (HESPIE) program.		

HESP313 **Neurobiology for Speech and Hearing**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

This course is designed to provide an understanding of normal neuroanatomy and neurophysiology of speech and language. It will also provide preliminary information regarding pathologic processes, especially those affecting speech and language

PBH1	Jessica Duran	Seats (Total: 40)	
	Meets May 31, 2022 - August 19, 2022		
	W 6:00pm - 8:30pm	JMZ 2206	
	Must be in the Hearing & Speech in the Evening (HESPIE) program.		

HESP386 **Experiential Learning**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of BSOS-Hearing & Speech Sciences department.

Students will have the opportunity observe and/or participate in therapy activities provided by a speech-language pathologist or audiologist in this experiential learning course.

Contact department for information to register for this course.

HESP388 **Undergraduate Research Externship**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Off-campus research internship with departmental affiliates at National Institutes of Health and regional universities. Contact department chairman for openings and descriptions of eligible placements.

Contact department for information to register for this course.

HESP389 **LEAP Classroom Internship**

Credits: 1-3 Grading Method: Regular

Participation in a language-based, literacy-rich preschool classroom for children with speech-language disorders. Students will learn behavior management techniques, curriculum planning and implementation, facilitation of play among children, data collection and teaching srategies.

Contact department for information to register for this course.

HESP499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A directed study of selected topics pertaining to human communication and its disorders.

Contact department for information to register for this course.

HESP605 **Assessment & Intervention in Bilingual Populations**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program.

Integrates foundational knowledge pertaining to bilingualism in speech-language pathology. This course provides students with a framework for working with individuals from culturally and linguistically diverse backgrounds. This course is designed to educate and train student clinicians to serve as bilingual speech-language pathologists.

WB27	Jose Ortiz	Seats (Total: 22)
	Meets July 11, 2022 - August 5, 2022	
	Th 9:00am - 12:00pm	ONLINE
	Class time/details on ELMs	ONLINE

HESP625 **Dysphagia**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of BSOS-Hearing & Speech Sciences department; or must be in Hearing and Speech Sciences: M.A. (Master's) program.

Nature and clinical management of dysphagia as it pertains to different clinical settings for adult and pediatric populations.

WB11	Ed Bice	Seats (Total: 21)
	Meets May 31, 2022 - July 8, 2022	
	TuTh 1:30pm - 4:40pm	ONLINE

HESP627 **Augmentative and Alternative Communication**

(Perm req)

Credits: 2 Grading Method: Regular

Recommended: Prior knowledge of Communication and its Disorders is required. Restriction: Permission of BSOS-Hearing & Speech Sciences department. Credit only granted for: HESP639R or HESP627.

Principles, methods, and procedures for categorizing, understanding, and developing augmentative and alternative communication.

An online course designed to provide an introduction to the principles, methods, and procedures for categorizing, understanding, and devloping augmentative and alternative communication (AAC) systems for persons with complex communication needs. All other course work is web online.

0401	Tonya Williams-Walker	Seats (Total: 22)
	Meets July 11, 2022 - July 29, 2022	
	M 3:00pm - 6:00pm	LEF 0135
	Class time/details on ELMs	ONLINE

HESP634 **Anatomy and Physiology of the Auditory and Vestibular Systems**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in HESP311, HESP407, and HESP411; or permission of instructor. Additional information: Fills a requirement for the Doctoral Program in Clinical Audiology (CAUD). Open to students in other graduate programs, especially NACS.

Comprehensive examination of the anatomy and physiology of the peripheral as well as the central auditory and vestibular systems. Both afferent and efferent pathways will be considered. Applications of basic auditory neuroscience to contemporary clinical audiology practice will be highlighted.

WB21	Matthew Goupell	Seats (Total: 15)
	Meets July 11, 2022 - August 19, 2022	
	MTuWThF 9:00am - 11:30am	ONLINE

HESP635 **Aural Rehabilitation/Habilitation**

Credits: 3 Grading Method: Regular, Audit

Principles, methods and procedures for aural rehabilitation/habilitation in children and adults.

0101	Lacey Curry	Seats (Total: 27)
	Meets May 31, 2022 - July 8, 2022	
	MW 1:00pm - 4:15pm	LEF 0135
	Class time/details on ELMs	ONLINE
	Recommended for Au.D. students.	

HESP638 **Research Practicum; Minor Research Problems**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail, Audit

Analysis, synthesis and integration of knowledge related to current research or clinical issues in human communication and its related disorders.

Contact department for information to register for this course.

HESP648B **Clinical Practice in Speech: Therapeutic Procedures**

(Perm req)

Credits: 1-2 Grading Method: Regular, Audit

Prerequisite: HESP648A. Restriction: Permission of instructor. Repeatable to 6 credits.

Supervised training in the application of clinical methods in the treatment of speech disorders.

0102	Eliza Thompson	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Th 9:30am - 10:50am	LEF 0135
	W 12:00pm - 12:50pm	LEF 0135
	This section will meet in 0135 Lefrak Hall. Contact the course instructor for meeting details.	

0103	Eusebia Mont	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Th 9:30am - 11:00am	LEF 0135
	F 12:00pm - 2:30pm	LEF 0135
	This section will meet in 0135 Lefrak Hall. Contact the course instructor for meeting details.	
0104	Kristin Slawson	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Th 9:30am - 11:00am	LEF 0135
	M 12:00pm - 12:50pm	LEF 0135
	This section will meet in 0135 Lefrak Hall. Contact the course instructor for meeting details.	
0105	Jose Ortiz	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Th 9:30am - 11:00am	LEF 0135
	M 9:30am - 11:00am	LEF 0135
	This section will meet in 0135 Lefrak Hall. Contact the course instructor for meeting details.	
0106	Jessica Wertz	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	M 12:00pm - 12:50pm	LEF 0135
	This section will meet in 0135 Lefrak Hall. Contact the course instructor for meeting details.	
0172	Kathryn Dow-Burger	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Th 9:30am - 11:00am	LEF 0135
	W 12:00pm - 12:50pm	LEF 0135
	This section will meet in 0135 Lefrak Hall. Contact the course instructor for meeting details.	

HESP649A **Clinical Practice in Audiology: Diagnostic Procedures**

Credits: 1-2 Grading Method: Regular, Audit

Restriction: Permission of instructor. Repeatable to 6 credits.

Supervised training in the application of clinical methods in the diagnosis of hearing disorders.

0101	Sarah Sohns **Meets May 31, 2022 - July 8, 2022** F 9:30am - 11:30am	Seats (Total: 7) LEF 0135
0102	Christina Shields **Meets May 31, 2022 - July 8, 2022** F 9:30am - 11:30am	Seats (Total: 7) LEF 0135
0103	Lisa Rickard **Meets May 31, 2022 - July 8, 2022** F 9:30am - 11:30am	Seats (Total: 7) JMZ 1226
0104	Lacey Curry **Meets May 31, 2022 - July 8, 2022** F 9:30am - 11:30am	Seats (Total: 7) JMZ 1123

HESP708 **Independent Study**

Credits: 1-6 Grading Method: Regular, Audit

Individual research projects under guidance of a faculty member.

Contact department for information to register for this course.

HESP728 **Advanced Clinical Practice in Speech**

Credits: 1-3 Grading Method: Regular, Audit

Clinical internship in selected off-campus facilities.

0119	Colleen Worthington **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0219	Colleen Worthington **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

HESP729 **Advanced Clinical Practice in Audiology**

Credits: 1-8 Grading Method: Regular, Audit

Clinical internship in selected off-campus facilities.

0101	Nicole Nguyen	Seats (Total: 10)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

HESP788 **Graduate Research Externship**

Credits: 1-3 Grading Method: Regular, Audit

Off-campus research internship with departmental affiliates at National Institutes of Health and other regional universities. Contact department chairman for available placements, requirements and openings.

Contact department for information to register for this course.

HESP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

HESP829 **Clinical Internship Residency**

Credits: 1-9 Grading Method: Regular, Audit

Off-Campus, full-time (30-40 hours/week) clinical externship in Audiology at regional and national institutions.

I101	Nicole Nguyen	Seats (Total: 10)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

HESP859 **Capstone Research Project II**

Credits: 2 Grading Method: Regular

Second of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves final data collection, analysis and presentation of results or completion of scholarly paper under the direction of the faculty mentor.

Pre- or Corequisite: HESP849.

0112	Sandra Gordon-Salant	Seats (Total: 10)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	
0118	Matthew Goupell	Seats (Total: 10)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	
0122	Samira Anderson	Seats (Total: 10)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

HESP889 **Doctoral Candidacy Research**

Credits: 1-3 Grading Method: Regular

Doctoral candidacy paper research

Contact department for information to register for this course.

HESP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HESP899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

HISP Historic Preservation Summer 2022

HISP319A **Special Topics in Historic Preservation; Field Methods in Archaeology**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Students will explore technical aspects of preservation taught by practitioners whose expertise are of special benefit to undergraduate students.

XI11	Stefan Woehlke	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	MTuWThF 8:00am - 5:00pm	Location: TBA

HISP619A **Special Topics in Historic Preservation; Field Methods in Archaeology**

Credits: 6 | Grading Method: Regular, Audit, Sat-Fail

Technical aspects of preservation taught by practitioners whose expertise are of special benefit to certificate students.

XI11	Stefan Woehlke **Meets May 31, 2022 - July 8, 2022** MTuWThF 8:00am - 5:00pm	Seats (Total: 12) Location: TBA

HISP629 **Independent Studies in Historic Preservation**

Credits: 3 | Grading Method: Regular, Audit

Individual Instruction course.

Contact department for information to register for this course.

HISP660 **Internship in Historic Preservation**

Credits: 3 | Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Formerly: HISP619.

Students will secure a summer internship with an organization engaged in historic preservation work (this can be a public agency, nonprofit, or private firm). The students will formulate a plan of work and a series of pedagogical goals to satisfy both the practical needs of the project and the academic requirements for the course.

I101	Jeremy Wells **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
I201	Jeremy Wells **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

HIST History Summer 2022

HIST134 **Spies, Assassins, Martyrs, and Witches: Famous Trials in American History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHU, SCIS

Examination of some of the most famous trials in American history and their enduring hold on the imagination.

WB11	Michael Ross	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

HIST137 **Pursuits of Happiness: Ordinary Lives in the American Revolution**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, SCIS

Credit only granted for: HIST137 or HNUH218A.

Investigates the search for personal fulfillment unleashed by the American Revolution; explores the many different meanings ascribed to the notion of the "pursuit of happiness" by Americans in the early national period.

WB31	Richard Bell	Seats (Total: 40)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

HIST200 **Interpreting American History: Beginnings to 1877**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, DSHU

Credit only granted for: HIST156 or HIST200. Formerly: HIST156.

The United States from colonial times to the end of the Civil War. Establishment and development of American institutions.

WB21	Robert Chiles	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

HIST201 **Interpreting American History: From 1865 to the Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, DSHU, DVUP

Credit only granted for: HIST157 or HIST201. Formerly: HIST157.

The United States from the end of the Civil War to the present. Economic, social, intellectual, and political developments. Rise of industry and emergence of the United States as a world power.

WB21	Robert Chiles	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

HIST219K **Special Topics in History; The Rise and Fall of the British Empire**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

If you are participating in the Global Classrooms section of this course, please disregard information regarding the pre and post departure requirements. This short 3-credit course focuses on the people, places, and policies that shaped the development of the British Empire, the single largest trans-cultural phenomenon in the world since 1500. During our investigations or and virtual visits to political and cultural sites in London students examine how ideology, migration, technology and resistance shaped the expansion and eventual retrenchment of British imperial power in the Atlantic world and the Indian sub-continent. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration. Learn more about Global Classrooms: go.umd.edu/gc-umd.

Contact department for information to register for this course.

HIST269A **Special Topics in Study Abroad II; Mexican Society: History and Gender Issues**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST269B **Special Topics in Study Abroad II; People and Cultures of Africa**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST269C **Special Topics in Study Abroad II; Spanish Culture Civilization and Literature III: Modern Times**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST269F **Special Topics in Study Abroad II; Sailors, Soldiers, Slaves: London**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST269R **Special Topics in Study Abroad II; Latin American Social Revolutions**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST269T **Special Topics in Study Abroad II; London: Cultural Capital**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST319W **Special Topics in History; Hollywood and Politics in the 20th Century**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Hollywood and Washington have been obsessed with each other for a long time. This course explores the history of this "dangerous" relation during the past 100 years. Crosslisted with CINE329G. Credit only granted for HIST319W or CINE329G.

WB31	Saverio Giovacchini	Seats (Total: 40)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

HIST328E **Selected Topics in History; The Politics of the Apocalypse: Imagining the World's End in Modern Times**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

This course will explore apocalyptic concerns from ancient times through the COVID-19 pandemic, focusing on three domains: religion, politics, and technology. The course will also challenge students to see history itself as a bone of contention, a subject of interpretation, rather than a fixed story of progress toward a predetermined end.

WB51	Piotr H Kosicki	Seats (Total: 40)
	Meets June 21, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

HIST328I **Selected Topics in History; Online and in the Streets: Protest and Activism in Latin American Feminist Movements**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Cross-listed with LACS348A and WGSS379L. Credit only granted for LACS348A, WGSS379L, or HIST328I. An interdisciplinary approach to Latin American and Caribbean history, culture, and politics, through the lenses of feminist protest and activism. The class explores how activists fight for change, both online and in the streets and how feminists agendas changed over time. Taught in collaboration with Universidad Nacional de Tres Febrero, Argentina. Students will share discussions with students from Argentina and learn from scholars and activists from the Global South.

GC01	Sabrina Gonzalez	Seats (Total: 20)
	Meets July 11, 2022 - July 29, 2022	
	TuTh 4:00pm - 6:00pm	ONLINE
	Class time/details on ELMs	ONLINE

HIST329K **History of Rock and Roll, 1950 - 2000**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH

This inter-disciplinary course will trace the development of American rock 'n' roll and popular music in the second half of the 20th century. Popular music will be studied both in terms of what it sounds like, and in terms of what it meant to the societies in which it was made and consumed. Special attention will be paid to the role of African-American cultural influences, as well as contributions made by European (mainly British) performers over the years.

WB61	Andrew Kellett	Seats (Total: 40)
	Meets August 1, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

HIST329P **Special Topics in History; From Body Snatchers to Jack the Ripper: Scandal and Crime in Victorian Britain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Learn about the dark side of Victorian life, from Royal scandals and grave robbery to workhouses, lady poisoners, and Jack the Ripper. We will use scandal and crime as a lens to study the larger social/ political/cultural world of the Victorians and their influence on pop culture today.

WB11	Julie Taddeo	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

HIST330 **Europe in the Making: The Early Medieval West (A.D. 300-1000)**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Cross-listed with RELS340. Credit only granted for: HIST330 or RELS340.

From one empire to another: Rome to Charlemagne. This period is approached as a crucible in which classical, Christian, and Germanic elements merged, yielding new experimental syntheses. This course will deal with issues of authority, cultural trends, and the formation of group solidarity.

WB41	Janna Bianchini	Seats (Total: 40)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

HIST339V **Special Topics in History; Unnatural Disasters: Climate Change and Environmental Justice in American History**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in history.

The current climate crisis has deep roots in American history. Using case studies of hurricanes, wildfires, droughts, floods, and more, this course will examine environmental disasters, their causes, and the ways that people have resisted and survived these catastrophic events.

WB41	Sophie Hess	Seats (Total: 40)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

HIST339W **Special Topics in History; Star Wars and the History of Western Myths in Modern PopularCulture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in history.

George Lucas created a massive science fiction universe with his creation of Star Wars but many of his ideas were drawn directly from historical events and myths. This course explores and examines the historical events and European and American mythologies that influenced the galaxy of Star Wars, and recognizes the different ways popular culture reflects history.

WB61	Nicholas Misukanis	Seats (Total: 40)
	Meets August 1, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

HIST357 **Recent America: 1945-Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST201, HIST211, HIST213, HIST222, HIST255, or HIST275; or must have completed HIST157; or permission of instructor.

American history from the inauguration of Harry S. Truman to the present with emphasis upon politics and foreign relations, but with consideration of special topics such as radicalism, conservatism, and labor.

WB51	Howard Smead	Seats (Total: 40)
	Meets June 21, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

HIST360 **Women and the Civil Rights Movement**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Twentieth-century U.S. civil rights movement from the vantage point of women, considering both women's involvement in the legal campaigns and political protests and the impact of civil rights struggles on women's condition, status, and identity.

Also offered as AASP498I and WMST498M. Credit granted for HIST360, AASP498I or WMST498M.

WB31	Elsa Barkley Brown	Seats (Total: 40)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

HIST369B **Special Topics in Study Abroad III; Brazil, Rio Film History and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST369G **Special Topics in Study Abroad III; Brazilian History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST369M **Special Topics in Study Abroad III; History of Medieval Italy: The World of Dante**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-History department; and junior standing or higher.

The History Department's Internship program. Pre-professional experience in historical research, analysis, and writing in a variety of work settings.

0150	Julie Taddeo	Seats (Total: 10)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

HIST469C **Study Abroad Special Topics IV; Spanish Culture Civilization and Literature III: Modern Times**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

HIST799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

HIST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

HLSA Health Services Administration Summer 2022

HLSA300 **Introduction to Health Policy and Services**

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in SPHL100 or PHSC300. Restriction: Must be in Public Health Science program; and must have earned a minimum of 60 credits. Credit only granted for: SPHL498P or HLSA300. Formerly: SPHL498P.

A multidimensional view of public health policy and services. Through interactive discussion of assigned readings, team-based learning, and supplementary lecture, students will learn about the nature of and development of policy, public health policy, and financing and delivery of health care services. This course will place a significant emphasis on a team-based learning approach to understanding the health care system and health care reform.

WB11	Kaitlynn Robinson-Ector	Seats (Total: 60)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	Students must have reliable internet access to complete this course. The class requires team-based projects that require working together. Students traveling who cannot commit to using the Eastern Time Zone for team meetings should not enroll.	

HLSA688 **Independent Study**

Credits: 1-6 Grading Method: Regular, Audit

Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.

0102	Lori Simon-Rusinowitz	Seats (Total: 10)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0103	Neil Sehgal	Seats (Total: 10)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

0104	Dahai Yue **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0105	Michel Boudreaux **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0106	Dylan Roby **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0107	Luisa Franzini **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0108	Stephen Thomas **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0109	Jie Chen **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0202	Lori Simon-Rusinowitz **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0203	Neil Sehgal **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0204	Dahai Yue **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0205	Michel Boudreaux **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

0206	Dylan Roby **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0207	Luisa Franzini **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0208	Stephen Thomas **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0209	Jie Chen **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
PLH1	Negin Fouladi **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs *Must be in Public Health Practice and Policy, Online.*	Seats (Total: 10) ONLINE
PLP1	Negin Fouladi **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs *Must be in Health Administration, Online.*	Seats (Total: 10) ONLINE

HLSA702 **Policy and Politics of Health**

Credits: 3 Grading Method: Regular, Audit

Organizational and financial components of the U.S. health care system, including social and political forces that bind the system. Advanced political analysis of the health care system, including key issues and problems.

PLH1	Lori Simon-Rusinowitz **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs *Must be in Public Health Practice and Policy, Online.*	Seats (Total: 30) ONLINE

HLSA760 **Healthcare Financial Management**

Credits: 3 Grading Method: Regular, Audit

Offers content in health services financial management with emphasis on applying traditional financial theories to health care and the health care system. Focus on decision-making using accounting and finance theories, principles, concepts and techniqes most important to health care leaders.

PLP1	Melvin Seale **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs *Must be in Health Administration, Online.*	Seats (Total: 35) ONLINE
WB11	Melvin Seale **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE

HLSA775 Health Services and Policy Research Methods

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in SPHL-School of Public Health; or permission of instructor.

Survey of health services and policy research methods, including conceptualization, measurement, survey sampling, literature review, different research designs, causal inference, data analysis, and interpretation of basic statistics. This is an introductory course in research methods designed for master's students in the School of Public Health.

PLH1	Negin Fouladi **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs *Must be in Public Health Practice and Policy, Online.*	Seats (Total: 30) ONLINE
PLP1	Negin Fouladi **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs *Must be in Health Administration, Online.*	Seats (Total: 25) ONLINE

HLSA778 Internship in Public Health

Credits: 1-4 Grading Method: Regular, Audit

Internship providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization.Setting of the internship will depend upon the student's background and career goals

I101	Melvin Seale **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 20)
I202	Melvin Seale **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
PLH1	Negin Fouladi **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs *Must be in Public Health Practice and Policy, Online.*	Seats (Total: 20) ONLINE
PLP1	Negin Fouladi **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs *Must be in Health Administration, Online.*	Seats (Total: 20) ONLINE

HLSA786 **Capstone Project in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Health Services Administration department.

Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

0102	Lori Simon-Rusinowitz **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0103	Neil Sehgal **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)

0104	Dahai Yue **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0105	Michel Boudreaux **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0106	Dylan Roby **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0107	Luisa Franzini **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0108	Stephen Thomas **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0109	Jie Chen **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0110	Melvin Seale **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0202	Lori Simon-Rusinowitz **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0203	Neil Sehgal **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0204	Dahai Yue **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

0205	Michel Boudreaux **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0206	Dylan Roby **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0207	Luisa Franzini **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0208	Stephen Thomas **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0209	Jie Chen **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0210	Melvin Seale **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
PLH1	Negin Fouladi **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs *Must be in Public Health Practice and Policy, Online.*	Seats (Total: 20) ONLINE
PLP1	Negin Fouladi **Meets May 31, 2022 - August 19, 2022** Class time/details on ELMs *Must be in Health Administration, Online.*	Seats (Total: 20) ONLINE

HLSA799 Master's Thesis Research

Credits: 1-6 Grading Method: Sat-Fail

0102	Lori Simon-Rusinowitz **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)

0103	Neil Sehgal **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0104	Dahai Yue **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0105	Michel Boudreaux **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0106	Dylan Roby **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0107	Luisa Franzini **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0108	Stephen Thomas **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0109	Jie Chen **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0110	Kellee White **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0202	Lori Simon-Rusinowitz **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0203	Neil Sehgal **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

0204	Dahai Yue **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0205	Michel Boudreaux **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0206	Dylan Roby **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0207	Luisa Franzini **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0208	Stephen Thomas **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0209	Jie Chen **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0210	Kellee White **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

HLSA898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HLSA899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

HLTH Health Summer 2022

HLTH106 **Drug Use and Abuse**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An interdisciplinary analysis of contemporary drug issues and problems. The course will examine physiological, psychological, social, philosophical, historical, legal and health aspects of drug use and abuse. Special attention will be focused on those general motivations for drug use that attend life on the college campus.

WB31	Tracy Zeeger	Seats (Total: 55)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

HLTH124 **Introduction to Behavioral and Community Health**

Credits: 1 Grading Method: Regular, Audit

Restriction: Must be in a major within the SPHL-Behavioral & Community Health department.

Required of first semester Community Health majors to expose them to introductory-level concepts within the field of behavioral and community health as well as the Community Health degree program. Includes discussion on the delivery of behavioral and community health at the local, state, national, and global levels; career opportunities in the diverse sectors of the community health field; undergraduate programmatic information; and strategies for student success.

Restriction waived; open to all students.

WB31	M Reynolds	Seats (Total: 30)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

HLTH140 **Personal and Community Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.

WB31	James Butler	Seats (Total: 50)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

HLTH200 **Introduction to Research in Community Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within the SPHL-Behavioral and Community Health department.

An overview of specific components and steps involved in the community health research process. Content includes, foundations of research, sampling, measurement design, and analysis in a community context.

Restriction waived; open to all students.

WB21	Azieb Kidanu	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

HLTH230 **Introduction to Health Behavior**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Psychological, social psychological, and sociological approaches to the following health areas: development of health attitudes and behavior, patient-provider interaction and the organization of health care.

WB21	Zahra Saboori	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

HLTH234 **Global Health Messages: Understanding Exposure & Impact**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVCC, SCIS

Restriction: Must not be in the Community Health program.

Using a global perspective, this course teaches students to be critical consumers of current and historical health communication interventions. It also provides students with the skills to develop media interventions that target specific and general populations. Students will discover the array of diverse media messages that influence the health and well-being of individuals and communities.

WB21	Sacha St-Onge Ahmad	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

HLTH325 **Poor in America: Health and Wellbeing**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Recommended: HLTH130; or HLTH140.

Using the ecological framework, students will explore the complicated relationship between poverty and health and well-being in the United States.

WB21	Samantha Smith	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

HLTH366 **Behavioral and Community Issues in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HLTH130, HLTH230, PSYC100, SOCY100, SOCY105, or ANTH260. Restriction: Must be in Public Health Science program; or permission of SPHL-Behavioral & Community Health department. And must have earned a minimum of 45 credits. Additional information: This course will initially be restricted to Public Health Science (PHSC) majors, but could ultimately be opened to other majors, particularly those in HLTH.

The exploration of how social and behavioral science theories and public health concepts and methods can be applied to both the health-illness experience and community interventions.

WB31	Evelyn King-Marshall	Seats (Total: 40)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

HLTH377 **Human Sexuality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The biological and developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.

WB41	Jenna Messman	Seats (Total: 130)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

HLTH389 **Topical Investigations**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH389I **Topical Investigations; An International Perspective of Violence: Comparing Italy, France and the U.S.: Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH399 **Community Health Field Work**

Credits: 1-6 Grading Method: Regular

Students will gain practical experience under conditions conducive to educational and professional development. The internship is a supervised period of community/public health activities, carried out in a relevant professional organization, that emphasizes the application of theory and previous coursework.

Please contact the instructor for course meeting days/times.

WB11	Tracy Kennedy	Seats (Total: 30)
	Meets May 23, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

HLTH402 **Disability is Not an Outcome: An Introduction to Understanding Disability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

With an intent to disrupt traditional understandings of disability as a health outcome to be prevented, this course will introduce students to disability as an identity, a community, a population of interest to public health professionals. To change this understanding students will explore historical representations of disability, ableism, and lived experiences of people with disabilities. Disability is a multi-layered concept that broadly describes a wide range of people. Although geared toward public health scholars, the mix of readings, discussions, and assignments will help students reflect and integrate learning into their own fields of study. The course examines factors that led to systemic oppression, and methods and strategies of moving toward a more inclusive society.

PLB1	Sara Olsen	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	MW 6:00pm - 8:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact oes@umd.edu.	
WB11	Sara Olsen	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	MW 6:00pm - 8:00pm	ONLINE
	Class time/details on ELMs	ONLINE

HLTH432 **Medical Terminology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: HLTH432 or HLTH498T. Formerly: HLTH498T.

Provides the framework for understanding medical language and terminology used by health care professionals. Students will gain an understanding of the rules of building and analyzing medical terms from word origins and will learn correct pronunciation, definitions, and spelling for all of the body systems, major pathological conditions, common disorders, prescribed medications, and more. Whether a student is interested in learning more about the medical field or they want to acquire practical knowledge for future personal use, this course provides the foundation for understanding the language of medicine.

WB21	Katherine Sharp	Seats (Total: 125)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

HLTH471 **Women's Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Restriction: Must be in a program in the Harriet Tubman Department of Women, Gender, and Sexuality Studies; or must be in a major within SPHL-Behavioral & Community Health department. Cross-listed with: WGSS471. Credit only granted for: HLTH471, WMST471, or WGSS471.. Formerly: WMST471.

The women's health movement from the perspective of consumerism and feminism. The physician-patient relationship in the gynecological and other medical settings. The gynecological exam, gynecological problems, contraception, abortion, pregnancy, breast and cervical cancer and surgical procedures. Psychological aspects of gynecological concerns.

For the summer, restriction is not in effect. Students of all majors are eligible to register and take this course.

PLB1	Tracy Zeeger	Seats (Total: 5)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact oes@umd.edu.	
WB31	Tracy Zeeger	Seats (Total: 50)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

HLTH491 **Community Health Internship**

Credits: 12 Grading Method: Regular

Prerequisite: Minimum grade of C- in HLTH420 and HLTH490. Restriction: Must have completed all program requirements and be in the last semester of the Community Health degree program.

Integrating theory with practice in a community health setting.

WB11	Tracy Kennedy	Seats (Total: 50)	
	Meets May 23, 2022 - August 19, 2022		
	Class time/details on ELMs	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

HLTH625 **Community Assessment through Qualitative Methods**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Restriction: Course will be restricted to Behavioral and Community Health graduate students.

A discussion of major paradigms in qualitative inquiry, an overview of the process of qualitative research, and an introduction to several qualitative research methods, including grounded theory, ethnography, phenomenology, and content analysis. Students will collect, transcribe, analyze, and present qualitative data using introductory interview and analytic techniques.

PLB1	Elizabeth Aparicio	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact oes@umd.edu.	

WB11	Elizabeth Aparicio	Seats (Total: 15)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	Course restriction does not apply to Summer registration. Class is 100% asynchronous online.	

HLTH665 **Health Behavior I: Theoretical Foundations of Health Behavior**

Credits: 3 Grading Method: Regular, Audit

Provides students with an understanding of the application of the social and behavioral sciences to health; addressing behavioral, social, and cultural factors that influence individual and population health and health disparities over the life course. Public health issues related to individuals and populations will be examined in terms of social and behavioral theories, empirical research findings, and methodologies.

PLB1	Sharon Desmond	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact oes@umd.edu.	

HLTH674 **Health Literacy**

Credits: 3 Grading Method: Regular, Audit

Recommended: Health communication, communication, journalism, literacy, or cognitive or information sciences classes. Credit only granted for: HLTH688L or HLTH674. Formerly: HLTH688L.

Introduction to health literacy research, practice, and skills. The course will develop students' understanding of how health literacy is both a barrier and an asset for health. We will also examine how health literacy affects a wide range of outcomes. Students will learn the basics of health literacy concepts, models, and research methods, and discuss health literacy research and evaluation in clinical, public health, and community settings. Students will study key health topics, populations, and contexts for health literacy research and practice. The course will describe professional skills necessary for effective public health communication practice and provide opportunities to practice the skills. The implications of research for public health practice, policy, and consumer/patient interventions and behavior will be integrated so that public health practitioners and researchers are prepared to address health literacy in their future work.

PLB1	Catherine Maybury	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact oes@umd.edu.	
WB21	Catherine Maybury	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

HLTH688 **Special Problems in Health Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

HLTH778 **Internship in Public Health**

Credits: 1-4 Grading Method: Regular

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

0101	Evelyn King-Marshall	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	
PLB1	Evelyn King-Marshall	Seats (Total: 5)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact oes@umd.edu.	

HLTH786 **Capstone Project in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Prerequisite: Must have completed all required coursework; and permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

HLTH799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

HLTH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HLTH899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

INAG Institute of Applied Agriculture Summer 2022

INAG110 **Oral Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, THET285.

A study of how perception, self-concept, and verbal and nonverbal communications affect the communication process as it emerges in the workplace. The course provides skill training in speech writing, public speaking, group communication, interpersonal communication, listening, and responding.

WB11	Amy Fisher	Seats (Total: 16)
	Meets May 31, 2022 - July 8, 2022	
	TuTh 9:00am - 12:10pm	ONLINE

INAG288 **Internship**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

On-site internship training in the student's major area of study. Students must complete a minimum of 320 working hours at an approved work site. Course work also includes weekly written assignments and a site visit assessment.

Contact department for information to register for this course.

INST Information Studies Summer 2022

INST126 **Introduction to Programming for Information Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Math placement of STAT100 or higher. Restriction: Must not have completed INST326; and must be in Information Science, Technology and Information Design, or Social Data Science programs.

An introduction to computer programming for students with very limited or no previous programming experience. Topics include fundamental programming concepts such as variables, data types, assignments, arrays, conditionals, loops, functions, and I/O operations.

WB11	Jennifer Proctor	Seats (Total: 40)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

INST151 **Becoming A Social Media Influencer**

Credits: 3 Grading Method: Regular, Audit General Education: DSSP

Credit only granted for: INST408N or INST151. Formerly: INST408N.

Teaches students how to create, grow, and manage influential social media accounts. Topics will include tools for content creation, analyzing and strategizing with analytics, building community, and defining their niche and approach.

WB11	Jennifer Golbeck	Seats (Total: 50)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

INST152 **"Fake Checking": Battling Misinformation and Disinformation in the Real World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Examining the phenomenon of "fake news" using the principles of information literacy, students will develop their skills in locating, analyzing, and evaluating different information sources -- in the classroom, in their personal lives, and in the workplace.

WB21	Courtney Douglass	Seats (Total: 40)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

INST201 **Introduction to Information Science**

Credits: 3 | Grading Method: Regular, Audit | General Education: DSHS

Credit only granted for: INST201 or INST301. Formerly: INST301.

Examining the effects of new information technologies on how we conduct business, interact with friends, and go through our daily lives. Understanding how technical and social factors have influenced the evolution of information society. Evaluating the transformative power of information in education, policy, and entertainment, and the dark side of these changes.

WB11	Fabian Faccio **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB21	Caitlin Christian-Lamb **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 40) ONLINE

INST210 **The Nuts & Bolts of Getting Hired**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: INST208C or INST210. Formerly: INST208C.

Have you thought about finding an internship, getting a job, or starting your career? Perhaps you're confused about how to begin. Welcome to The Nuts and Bolts of Getting Hired, where you'll learn the skills necessary to develop your professional tool kit and obtain the internship or job that can help you build the career you want. This course will help you prepare for the next step in your career by exploring the following topics: Identifying your career goals, mastering the skills of crafting a professional resume, effective interviewing, strategic networking, and professional communication.

WB11	Katy Lawley **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 30) ONLINE
WB21	Katy Lawley **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 30) ONLINE

INST311 **Information Organization**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in PSYC100 or SOCY105. Restriction: Must be in Technology and Information Design or Information Science program.

Examines the theories, concepts, and principles of information, information representation and organization, record structures, description, and classification. Topics to be covered in this course include the methods and strategies to develop systems for storage, organization, and retrieval of information in a variety of organizational and institutional settings, as well as policy, ethical, and social implications of these systems.

WB11	Galina Madjaroff **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB21	Ryan O'Grady **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 40) ONLINE

INST314 **Statistics for Information Science**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in INST126 or GEOG276; and minimum grade of C- in STAT100, and MATH115 (or higher). Restriction: Must be in Information Science or Social Data Science program. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201.

Basic concepts in statistics including measure construction, data exploration, hypothesis development, hypothesis testing, pattern identification, and statistical analysis. The course also provides an overview of commonly used data manipulation and analytic tools. Through homework assignments, projects, and in-class activities, you will practice working with these techniques and tools to create information resources that can be used in individual and organizational decision-making and problem-solving.

WB11	Matthew Patrick **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs *For more information about the schedule, please review the syllabus and/or email the instructor.*	Seats (Total: 30) ONLINE

INST326 **Object-Oriented Programming for Information Science**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in INST126 or GEOG276. Restriction: Must be in Information Science or Social Data Science program.

An introduction to programming, emphasizing understanding and implementation of applications using object-oriented techniques. Topics to be covered include program design and testing as well as implementation of programs.

WB21	Matthew Patrick	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

INST327 **Database Design and Modeling**

Credits: 3 | Grading Method: Regular, Audit | General Education: DSSP

Prerequisite: Minimum grade of C- in INST126 or GEOG276. Restriction: Must be in Information Science or Social Data Science program. Credit only granted for: INST327 or BMGT402.

Introduction to databases, the relational model, entity-relationship diagrams, user-oriented database design and normalization, and Structured Query Language (SQL). Through labs, tests, and a project, students develop both theoretical and practical knowledge of relational database systems.

WB21	Pamela Duffy	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	TuTh 9:30am - 11:45am	ONLINE
	Class time/details on ELMs	ONLINE
	For more information about the schedule, please review the syllabus and/or email the instructor.	

INST352 **Information User Needs and Assessment**

Credits: 3 | Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- from INST201 or INST301; and minimum grade of C- in INST311. Restriction: Must be in Technology and Information Design or Information Science programs.

Focuses on use of information by individuals, including the theories, concepts, and principles of information, information behavior and mental models. Methods for determining information behavior and user needs, including accessibility issues will be examined and strategies for using information technology to support individual users and their specific needs will be explored.

WB21	LaRia Rogers	Seats (Total: 55)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

INST364 **Human-Centered Cybersecurity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and minimum grade of C- in INST126, INST327, STAT100, MATH115, and PSYC100. Restriction: Must be in Information Science program.

Cybersecurity is fundamentally a problem of human interaction with technology, but its technical challenges are better understood than its human challenges. This course is designed to give you an overview of human interactions with cybersecurity technology, from users to system designers. Using the information gleaned in this course, you should be able to make better predictions about how people react to cybersecurity policies and tools, and how those reactions shape organizational behavior. The earlier part of the course focuses on explanations for behavior, while the later parts of the course focus more on the development and evaluation of tools for assisting people in cybersecurity.

WB21	Susan Campbell	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

INST389 **Supervised Internship in Information Science; Supervised Internship in Information Science**

Credits: 3 Grading Method: Regular

Course will provide students with the knowledge, skills, and experiences that will help shape their goals as they begin their successful high-impact Information Career. It will prepare them to work an in an environment in which suitability for high-status positions is not determined by specific skills, but rather by ability to take initiative in complex, dynamic situations. Students must have an internship arranged before enrolling.

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and minimum grade of C- in INST126, INST314, MATH115, PSYC100, and STAT100. Restriction: Must be in Information Science program. Open to INFO students with or without an internship. Students who have already secured an internship should register for section WB11 for 3 credits. They will need to verify their internship with the course instructor after registering. Students without an internship should register for section WB12 for 3 credits. They will work on unique data sets from iSchool partners through the summer.

WB11	Galina Madjaroff	Seats (Total: 25)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

INST414 **Data Science Techniques**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH115 (or higher) and STAT100; and a minimum grade of C- from INST126 or GEOG276; and a minimum grade of C- from one of the following (INST201, INST301, or BSOS233); and a minimum grade of C- from one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201, GEOG202, GVPT170, PSYC100, or SOCY100); and a minimum grade of C- from one of the following (ECON230, GEOG306, GVPT201, INST314, PSYC200, or SOCY201). Recommended: Minimum C- in MATH140 and (INST326, BSOS326, or GEOG376). Restriction: Must be in Information Science or Social Data Science program.

An exploration of how to extract insights from large-scale datasets. The course will cover the complete analytical funnel from data extraction and cleaning to data analysis and insights interpretation and visualization. The data analysis component will focus on techniques in both supervised and unsupervised learning to extract information from datasets. Topics will include clustering, classification, and regression techniques. Through homework assignments, a project, exams and in-class activities, students will practice working with these techniques and tools to extract relevant information from structured and unstructured data.

WB11	Babak Fotouhi	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

INST447 **Data Sources and Manipulation**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in STAT100 and INST327; and a minimum grade of C- from one of the following (INST201, INST301, BSOS233); and a minimum grade of C- from one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201, GEOG202, GVPT170, PSYC100, or SOCY100); and a minimum grade of C- from one of the following (ECON230, GEOG306, GVPT201, INST314, PSYC200, or SOCY201); and a minimum grade of C- from one of the following (BSOS331, GEOG273, or INST326). Restriction: Must be in Information Science or Social Data Science program.

Examines approaches to locating, acquiring, manipulating, and disseminating data. Imperfection, biases, and other problems in data are examined, and methods for identifying and correcting such problems are introduced. The course covers other topics such as automated collection of large data sets, and extracting, transforming, and reformatting a variety of data and file types.

WB11	Nekabari Sigalo	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

INST453 **Project Management for Information Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: BMGT485, ENCE320, ENCE325, INST408O or INST453. Formerly: INST408O.

Provides a comprehensive overview of project management, focusing on the needs of information resources (IR). The course covers the concepts and techniques for planning and execution of projects including developing work breakdown structure, estimating costs, managing risks, scheduling, staff and resource allocation, team building, communication, tracking, control, and other aspects of successful project completion.

WB11	Arjav Shah	Seats (Total: 40)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

INST462 **Introduction to Data Visualization**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in STAT100; minimum grade of a C- from one of the following (INST201, INST301, or BSOS233); minimum grade of C- in INST126 or GEOG276; a minimum grade of C- from one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201, GEOG202, GVPT170, PSYC100, or SOCY100); and a minimum grade of C- from one of the following (ECON230, GEOG306, GVPT201, INST314, PSYC100, or SOCY201). Restriction: Must be in Information Science or Social Data Science program.

Exploration of the theories, methods, and techniques of visualization of information, including the effects of human perception, the aesthetics of information design, the mechanics of visual display, and the semiotics of iconography.

WB11	Jennifer Golbeck	Seats (Total: 50)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

INST466 **Technology, Culture, and Society**

Credits: 3 Grading Method: Regular, Audit General Education: DVCC

Prerequisite: Minimum grade of C- from INST201 or INST301; and minimum grade of C- from PSYC100 or SOCY105. Restriction: Must be in Technology and Information Design or Information Science programs.

Individual, cultural, and societal outcomes associated with development of information & communication technologies (ICTs), including pro- and anti-social factors. Unpacking how gender, race, ethnicity, sexual orientation, disabilities, and political affiliations affect consumption and production of online experiences. Unpacking how structures of dominance, power and privilege manifest at individual, institutional and cultural levels.

WB21	Chad Doran	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

INST490 **Integrated Capstone for Information Science**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and minimum grade of C- in INST126, INST311, INST314, INST326, INST327, INST335, INST346, INST352, INST362, PSYC100, STAT100, and MATH115. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies.

The capstone provides a platform for Information Science students where they can apply a subset of the concepts, methods, and tools they learn as part of the Information Science program to addressing an information problem or fulfilling an information need.

WB11	Travis Wagner	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	MW 10:00am - 12:30pm	ONLINE
WB12	Jesse Klein	Seats (Total: 25)
	Meets May 31, 2022 - August 19, 2022	
	TuTh 3:00pm - 5:30pm	ONLINE

INST608N **Special Topics in Information Studies; Becoming A Social Media Influencer**

Credits: 3 Grading Method: Regular, Audit

Covers special topics in information studies.

WB11	Jennifer Golbeck	Seats (Total: 25)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

INST620 **Diverse Populations, Inclusion, and Information**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC620 OR INST620. Formerly: LBSC620.

Importance of equality of information access. Social, political, and technological barriers to information. Information needs of diverse and underrepresented populations. Principles of inclusive information services.

WB11	Renee Hill	Seats (Total: 30)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

INST633 Analyzing Social Networks and Social Media

Credits: 3 Grading Method: Regular

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC708L or INST633. Formerly: LBSC708L.

Introduces students to the science and social science of network analysis. Through real world examples, including analysis of their own social networks, students will develop skills for describing and understanding the patterns and usage of services like Facebook, Twitter, YouTube, and others. Students will read classic and cutting edge articles and books about these topics and discuss their applicability to this new social media. The class will culminate with a capstone project in which students will apply the analysis methods they have learned to understanding a particular question about social networks and social media.

WB11	Jennifer Golbeck	Seats (Total: 30)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

INST646 Principles of Records and Information Management

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC680 OR INST646. Formerly: LBSC680.

Principles and practices of managing records in the context of information management programs in government, corporate and other institutional settings. Includes access; legal requirements; digital technologies; and creation, administration, appraisal, and retention and disposition of records.

WB11	Chad Doran	Seats (Total: 30)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

INST702 **Advanced Usability Testing**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of instructor; or (INFM605 or INST631). Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM702 or INST702. Formerly: INFM702.

Usability test design, implementation and analysis for computer and mobile devices; special attention will be paid to remote testing. Students will learn the complex process of coordinating and facilitating a usability test and how to synthesize test data into reports appropriate for various audiences.

WB11	LaRia Rogers	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

INST709 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Intensive individual study, reading, or research in an area of specialized interest under faculty supervision. Registration limited to the advanced student with the approval of the advisor and of the faculty member involved.

I101	Paul Jaeger	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
I102	Sharona Ginsberg	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

INST728J **Special Topics in Information Studies; CSS/HTML Basics**

Credits: 3 Grading Method: Regular, Audit

Selected topics in information studies.

WB21	P Kshetry	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

INST754 **Data Integration and Preparation for Analytics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM600, INST630, and INST733; and (INFM603 or JOUR652) ; or permission of INFO-College of Information Studies.

Provides a comprehensive overview of the end-to-end processes for acquiring, ingesting, managing, cleansing, transforming and integrating data sources for the purposes of reporting andanalytics. Concepts include data acquisition, data streaming, data staging, standardization, data quality, concept and metadata harmonization, transformation, and data modeling. Students will learn how ingested data sets can be transformed, integrated, and prepared for analytical use.

WB11	David Patrick	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

INST799 **Master's Thesis Research**

Credits: 1-3 Grading Method: Sat-Fail

Contact department for information to register for this course.

INST818 **Individual Research Experience**

Credits: 1-3 Grading Method: Regular, Audit, Sat-Fail

Pre-candidacy individual research experience directed by a faculty member.

0115	Jonathan Lazar	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
WB11	Ido Sivan-Sevilla	Seats (Total: 1)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

WB12	Susannah Paletz **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 5) ONLINE
WB21	Susannah Paletz **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 5) ONLINE

INST898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

INST899 **Doctoral Dissertation Research; Doctoral Dissertation**

Credits: 1-8 Grading Method: Sat-Fail

0297	Amanda Lazar **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)
I101	Ge Gao **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 1)
I102	Douglas Oard **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I103	Jessica Vitak **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

JAPN Japanese Summer 2022

JAPN101 **Elementary Japanese I**

Credits: 6 Grading Method: Regular

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score.

Introduction to basic patterns of contemporary spoken Japanese and to the two phonetic syllabaries (Katakana and Hiragana).

WB11	Kumiko Akikawa	Seats (Total: 10)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 9:00am - 10:30am	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

JAPN102 **Elementary Japanese II**

Credits: 6 Grading Method: Regular

Prerequisite: Minimum grade of C- in JAPN101; or appropriate Foreign Language Placement Test (FLPT) score.

Continued introduction to the basic spoken patterns of contemporary Japanese.

WB21	Makiko Inoue	Seats (Total: 10)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWThF 9:00am - 10:30am	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion

JAPN499T **Directed Study in Japanese; Experiencing Japanese Life: Language and Culture in Kyoto and Beyond**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

JOUR Journalism Summer 2022

JOUR130 **Self-Presentation in the Age of YouTube**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285. Additional information: May not count toward the Journalism major.

Students, as they make use of evolving technologies, need to be able to present themselves effectively in front of any number of different audiences through any number of different outlets. Whether in an interview on radio, a guest presentation at a conference, in comments on a video blog, in commentary on TV, in the lead on a self-produced YouTube video, or as spokesperson in front of investors or management, professionals need strong oral communication skills. This class focuses on strengthening those skills through active individual and group presentations, as well as, through discussion of key techniques and group critique of presentation publicly available in the social media space on sites such as YouTube.

WB31	Amber Moore **Meets May 31, 2022 - June 17, 2022** Class time/details on ELMs	Seats (Total: 24) ONLINE
WB41	Sohana Nasrin **Meets July 11, 2022 - July 29, 2022** Class time/details on ELMs	Seats (Total: 24) ONLINE

JOUR150 **Introduction to Mass Communication**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DSSP

Additional information: Not applicable toward journalism major.

Survey of the functions and effects of the mass media in the United States. A consumer's introduction to newspapers, television, radio, film, sound recording, books, magazines, and new media technology.

WB21	Carolina Siqueira Paranhos Velloso **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 18) ONLINE

JOUR175 **Media Literacy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE, D | General Education: DSSP, DVUP

Additional information: Not applicable toward journalism major.

An analysis of the information, values and underlying messages conveyed via television, newspapers, the internet, magazines, radio and film. Examines the accuracy of those messages and explores how media shape views of politics, culture and society.

This is a completely online course with both synchronous and asynchronous elements. Students are required to login at the time specified for the discussion section but additional work outside of this time is required as well.

WB31	Susan Moeller **Meets May 31, 2022 - June 17, 2022** Class time/details on ELMs *Mandatory synchronous online meetings on Tuesday 5/31, Tuesday 6/7, and Tuesday 6/14, from 5:00pm - 6:30pm EST.*	Seats (Total: 20) ONLINE

JOUR199 **Survey Apprenticeship; Survey Apprenticeship**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

College-monitored experience in approved mass-communications organizations and industries.

I101	Karen Denny	Seats (Total: 50)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

JOUR201 **News Writing and Reporting I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENGL101, JOUR181, and JOUR200; and permission of JOUR-Philip Merrill College of Journalism. Restriction: For students intending to be journalism majors; and permission of JOUR-Philip Merrill College of Journalism.

Introduction to news for the print and electronic media, development of new concepts: laboratory in news-gathering tools and writing skills. Students who earned 80% or higher on the JOUR181 diagnostic are exempt from the JOUR181 prerequisite.

WB11	Carole Lee	Seats (Total: 17)	
	Meets May 31, 2022 - July 8, 2022		
	MW 10:00am - 11:45am	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
	This course will meet synchronously on Mondays and Wednesday. Students will be required to log in to the course on Tuesdays and Thursdays, but not at a specified time. More details will be provided on the first day of the course.		

JOUR267 **Introduction to Social Media and Audience Engagement**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: JOUR268 or JOUR267. Formerly: JOUR268.

Provides students with an overview of how journalists use social media to gather information, tell stories and reach their target audience. Students will develop skills in social content creation, audience engagement and sourcing and verification.

YW41	Alexander Pyles	Seats (Total: 13)	
	Meets July 11, 2022 - July 29, 2022		
	MTuWThF 10:00am - 11:30am	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
	Restricted to students in Terp Young Scholars.		

JOUR282 **Beyond Facebook: How Social Media are Transforming Society, Culture, Business and Politics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, SCIS

Credit only granted for: JOUR289F or JOUR282. Formerly: JOUR289F.

Examining the rise of social media and their impact on culture, business, government, politics, journalism and society, this course provides students with a broad contextual understanding of the multidisciplinary impacts of social media such as Twitter, Facebook and similar Internet-based services.

WB41	Robin Sundaramoorthy	Seats (Total: 23)	
	Meets July 11, 2022 - July 29, 2022		
	Class time/details on ELMs	ONLINE	
WB61	Denitsa Yotova	Seats (Total: 23)	
	Meets August 1, 2022 - August 19, 2022		
	Class time/details on ELMs	ONLINE	

JOUR352 **Interactive Design and Development**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR152; and JOUR201; and must have completed or be concurrently enrolled in JOUR262 or JOUR370. Or permission of JOUR-Philip Merrill College of Journalism. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Jointly offered with JOUR652. Credit only granted for: JOUR352 or JOUR652.

Conceptualize, wireframe, design and build responsive Web pages using HTML, style sheets and other coding tools; work with open source interactive tools, JavaScript libraries, multimedia and text to create charts, timelines, maps and other forms of nonfiction storytelling.

WB11	Adam Marton	Seats (Total: 13)	
	Meets May 31, 2022 - July 8, 2022		
	MW 10:00am - 11:45am	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
	The Monday class will be held on Zoom synchronously. The Wednesday class will be a lab that students complete themselves during the class time but we will not meet on Zoom (though the instructor will be available on Zoom during that time to help).		

JOUR396 **Supervised Internship**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Must have earned a grade of C- or better in JOUR320. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR326, JOUR366, or JOUR396.

Students will complete a minimum of 90 hours in a supervised journalism internship over a minimum of 10 weeks in spring and fall, and eight weeks in summer. Emphasis is on relating academic training to professional experience. Students may pick up an internship proposal form in KNI 1100, have their internship supervisor fill it out, and meet with the college's internship director to receive permission to register. No requests to register after the Schedule Adjustment Period will be granted. This requirement would affect incoming freshmen from the fall 2012 class.

I101	Karen Denny	Seats (Total: 80)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

JOUR398 **Independent Study**

Credits: 1-3 Grading Method: Regular

Individual projects in journalism.

Contact department to make arrangements. Consult in JRN 1117 for section code corresponding to faculty member.

Contact department for information to register for this course.

JOUR434 **Salzburg Seminar: Global Media Literacy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP, DVUP

Restriction: Must be in Salzburg Academy program. Jointly offered with JOUR734. Credit only granted for: JOUR434 or JOUR734.

An advanced analysis of the information, values underlying messages conveyed via television, newspapers, the Internet, magazines, radio and film from a cross-cultural perspective. Examines the accuracy of messages and explores how distinctive global media shape views of politics culture and society with nations, across regions and internationally.

Contact department for information to register for this course.

JOUR435 **Salzburg Seminar: Global Change, Global Cooperation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, DVUP

Restriction: Must be in Salzburg Academy program. Jointly offered with JOUR735. Credit only granted for: JOUR435 or JOUR735.

Practical and theoretical examination of a global problem (or problems) of contemporary importance from a cross-cultural, perspective. Analytical framework used to examine how media shape global problems, events and/or issues regionally.

Contact department for information to register for this course.

JOUR459W **Special Topics in Journalism; Sports Media & Athlete Branding**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

This course will help students understand athlete representation and self-representation in the digital age, with a specific focus on how storytelling differs across college, professional and Olympic sports given the unique policies and regulations at each of these levels. In addition, the course will explore athlete use of social media and the role new technologies play in creating and inspiring interest in individual brands.

WB21	Shannon Scovel	Seats (Total: 23)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

JOUR502 **Basics of Writing and Editing**

(Perm req)

Credits: 1 | Grading Method: Regular, Audit

Restriction: Approval of the College of Journalism.

This skills-based immersion into journalism teaches the foundations of journalism - reporting and writing news. It explores how news is delivered through digital and print publications and how editors and reporters make judgments on what constitutes a story worth pursuing. Students are introduced to reporters' ethics, to the construction of short news stories and basic interviewing and research techniques and to Associated Press style points.

WB61	Christine Harvey	Seats (Total: 18)	
	Meets August 1, 2022 - August 19, 2022		
	MTuTh 5:00pm - 6:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	

JOUR652 **Interactive Design and Development**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Corequisite: Offered to students enrolled in the journalism master's degree or certificate. Master's degree students should take JOUR 504 as a pre- or co-requisite. Certificate students are encouraged to take JOUR 604 as a co-requisite. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR652 or JOUR352.

Conceptualize, wireframe, design and build responsive Web pages using HTML, style sheets and other coding tools; work with open source interactive tools and JavaScript libraries to create charts, timelines and maps to tell stories.

WB11	Adam Marton	Seats (Total: 5)	
	Meets May 31, 2022 - July 8, 2022		
	MW 10:00am - 11:45am	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
	The Monday class will be held on Zoom synchronously. The Wednesday class will be a lab that students complete themselves during the class time but we will not meet on Zoom (though the instructor will be available on Zoom during that time to help).		

JOUR698 **Special Problems in Communication**

Credits: 1-3 Grading Method: Regular, Audit

Independent study in area of the student's interest.

Contact department for information to register for this course.

JOUR734 **Salzburg Seminar: Global Media Literacy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Salzburg Academy program. Jointly offered with JOUR434. Credit only granted for: JOUR434 or JOUR734.

An advanced analysis of the information, values and underlying messages conveyed via television, newspapers, the Internet, magazines, radio and film from a cross-cultural perspective. Examines the accuracy of messages and explores how distinctive global media shape view of politics, culture and society within nations, across regions and internationally.

Contact department for information to register for this course.

JOUR735 **Salzburg Seminar: Global Change, Global Cooperation**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Salzburg Academy program. Jointly offered with JOUR435. Credit only granted for: JOUR435 or JOUR735.

Practical and theoretical examination of a global problem (or problems) of contemporary importance from a cross-cultural, perspective. Analytical framework used to examine how media shape global problems, events and/or issues regionally.

Contact department for information to register for this course.

JOUR798 **Master's Professional Fieldwork**

Credits: 1-6 Grading Method: Sat-Fail

Research for and preparation of news articles or programs for use in the media. Analysis of fieldwork experience using communication theory and research results. Fieldwork may be done independently or as an internship. Repeatable to a maximum of six credits.

Contact department for information to register for this course.

JOUR799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

JOUR888 **Doctoral Professional Field Work**

Credits: 3-9 Grading Method: Regular, Audit

Critical analysis of a phase of a professional field in journalism and public communication. Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.

Contact department for information to register for this course.

JOUR889 **Doctoral Tutorial in Journalism and Public Communication**

Credits: 3-9 Grading Method: Regular, Audit

Individual research in journalism and public communication.

Contact department for information to register for this course.

JOUR898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

JOUR899 **Doctoral Dissertation Research in Journalism and Mass Communication**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

KNES Kinesiology Summer 2022

KNES120A **Fitness Walking**

Credits: 1 Grading Method: Regular, Pass-Fail

This is a co-ed physical activity course for beginning fitness walking.

Students must pay a $40 instructional materials fee.

WB21	Andrew Ginsberg	Seats (Total: 75)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

KNES131V **Physical Education Activities: Coed; Beginning Jogging**

Credits: 2 Grading Method: Regular, Pass-Fail

Attendance is required beginning the first day of class. Students must pay $40 instructional materials fee. Credit only granted for: KNES131V or KNES131N.

WB11	Andrew Ginsberg, Andrea Liberto	Seats (Total: 75)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

KNES137N **Physical Education Activities: Coed; Golf (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendance is required beginning the first day of class. Students must pay a $40 instructional materials fee.

0401	Jeff Maynor	Seats (Total: 20)	
	Meets July 11, 2022 - July 29, 2022		
	MTuWThF 9:00am - 11:00am	GLF 1102	Lab

KNES144T **Physical Education Activities: Coed; Self-Defense**

Credits: 2

Grading Method: Regular, Pass-Fail

Students must pay a $40 instructional materials fee.

WB11	Kenneth Klotz	Seats (Total: 30)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

KNES161N **Physical Education Activities: Coed; Conditioning (beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendance (via ELMS response) is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee. Students will be expected to complete 3-4 exercise sessions and post workout results on ELMS each week.

WB21	Lauren Nowosatka	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

KNES161T **Physical Education Activities: Coed; Yoga (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendance is required beginning the first day of class. Students must pay $40 instructional materials fee.

WB11	Kate Shin	Seats (Total: 35)	
	Meets May 31, 2022 - July 8, 2022		
	MWTh 9:00am - 11:00am	ONLINE	Lab

KNES201 **Kinesiological Principles of Physical Activity**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Corequisite: Any physical activity course, e.g., KNES 100-190; or permission of SPHL-Kinesiology department. Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: KNES200 or KNES201.

An introduction to Kinesiology, the study of human movement, through the experience of learning a specific motor skill or being engaged in physical activity. Emphasis on the theories and knowledge underlying the learning and performance of all motor and sport skills.

WB11	Steven Kahl	Seats (Total: 40)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

KNES285 **History of Physical Culture, Sport, & Science in America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Restriction: Restricted to majors or non-majors with less than or equal to 60 credits. Credit only granted for: KNES285 or KNES293.

Examines the history of physical culture in America, focusing on the period from the end of the Civil War to the Cold War. Physical culture refers to a broad range of movement practices including sport, play, rehabilitative exercise, health and fitness training, and recreation and leisure. More specifically, we challenge the idea that historical physical culture practices--and the scientific processes from which they were derived--were 'neutral' or 'objective'; rather, we explore the cultural, social, political, and economic contexts shaping physical culture knowledge, study, structures, and policies across American history. The goal is for you to learn and apply techniques of historical analysis to develop a critical understanding of how knowledge about, and practices of, physical culture supported a particular social order via the construction of difference, norms, and/or hierarchies, and ultimately contributed to some of the inequalities that endure today.

WB51	Shannon Jette	Seats (Total: 50)
	Meets June 21, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

KNES287 **Sport and American Society**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Recommended: Minimum grade of C- in KNES285.

Sport will be related to such social problems as delinquency, segregation, collective behavior, and leisure; to social processes such as socialization, stratification, mobility, and social control; and to those familiar social institutions the family, the school, the church, the military, the economy, the polity, and the mass media.

WB31	Ronald Mower	Seats (Total: 75)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

KNES289 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

KNES320 **Physiological Basis of Physical Activity and Human Health**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI201 and BSCI202. Restriction: Must be in Public Health Science program. Credit only granted for: KNES360 or KNES320.

A study of the responses and chronic adaptations to physical activity and exercise, with particular emphasis on the interaction between human health and physical activity. The laboratory component of course will focus on the assessment of physical activity and measurement of physiological adaptations to exercise. Students are expected to gain an understanding and appreciation for the benefits of physical activity and exercise in the context of public health.

Students must pay a $50 lab fee. The laboratory component of KNES320 will be fully in-person at the times shown for each section. The lecture component of KNES320 will be fully online and asynchronous (meaning you will not have a set time to meet for class). There will be specific dates and time windows for lecture quizzes and exams (9am - 6pm EDT, without exception).

0101	Steven Prior	Seats (Total: 16)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	
	TuTh 8:00am - 9:50am	SPH 0125	Lab
0102	Steven Prior	Seats (Total: 16)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	
	TuTh 10:00am - 11:50am	SPH 0125	Lab

KNES334 **Adapted Physical Activity: Empowering People with Disabilities to Lead a Healthy and Active Lifestyle**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSSP, DVUP

Prerequisite: KNES370; or students not in the Kinesiology major may contact the instructor for permission. Restriction: Must have earned a minimum of 75 credits. Credit only granted for: KNES498L or KNES334. Formerly: KNES498L.

Study of the field of adapted physical activity and its impact on the health and wellness of individuals with disabilities. Students will design an adapted physical activity program proposal and develop the skills needed to empower people with disabilities to participate in physical activity and sports programs. Students will explore their own perceptions towards disability and how people with disabilities are portrayed in our society. They will study the etiology of disabling conditions and the implications for participating in physical activity.

WB41	Ana Palla	Seats (Total: 30)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

KNES342 **Sport, Commerce, and Culture in the Global Marketplace**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Recommended: KNES287. Credit only granted for: KNES389A or KNES342. Formerly: KNES389A.

The Sport, Commerce, and Culture in the Global Marketplace study abroad program is designed for students who are interested in the relationship between sport, culture, and the contemporary global economy.

Contact department for information to register for this course.

KNES346 **Sport for Development**

Credits: 3 | Grading Method: Regular, Pass-Fail

Prerequisite: Must have earned a minimum grade of C- in KNES287. Recommended: KNES485. Restriction: Must be a major within the SPHL-Kinesiology department and must have earned a minimum of 75 credits. Credit only granted for: KNES389D or KNES346. Formerly: KNES389D.

Examines how sport-based programs and organizations are used by governments, multinational corporations, and non-government organizations (NGO's) to reach personal, community, national and international development objectives; focuses on theorizing the histories of international development and contemporary global issues; contextualizes the interrelationship of theory, institutions, and practices of domestic and international sport for development and peace programing.

WB21	Ronald Mower	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

KNES350 **The Psychology of Sports & Exercise**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Restriction: Must have earned a minimum of 45 credits.

An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.

WB21	J Carson Smith	Seats (Total: 75)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

KNES355 **Sport Management**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES287. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits. Credit only granted for: KNES355 or KNES498M.

Application of concepts and issues related to management principles and business concerns across various sections of the sport industry. Principles pertaining to the management of sport organizations.

Prerequisite: KNES287 with a C- or better.

WB11	Stephen McDaniel	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

KNES360 **Physiology of Exercise**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI202 and BSCI201; or permission of SPHL-Kinesiology department. Restriction: Must be in one of the following programs (Kinesiology; Public Health Science).

A study of the physiology of exercise, including concepts of work, muscular contraction, energy transformation, metabolism, oxygen debt, and nutrition and athletic performance. Emphasis on cardiovascular and respiratory function in relation to physical activity and training.

Students must pay a $50 laboratory fee. The laboratory component of KNES360 will be fully in-person. Lecture quizzes and exams will be open only from (9am - 9pm EDT, without exception) on the days listed in the syllabus.

0101	Sushant Ranadive **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs TuTh 12:00pm - 1:50pm	Seats (Total: 16) ONLINE SPH 0125	 Lab
0102	Sushant Ranadive **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs TuTh 2:00pm - 3:50pm	Seats (Total: 16) ONLINE SPH 0125	 Lab

KNES370 **Motor Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within SPHL-Kinesiology department.

Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.

WB11	Tim Kiemel **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 50) ONLINE	

KNES385 **Motor Control and Learning**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI201; and a minimum grade of C- in the KNES program's Math Requirement (e.g. MATH113, 115, 140). Recommended: PHYS121 or KNES289P. Restriction: Must be in a major within SPHL-Kinesiology department.

This introductory course investigates how humans control and adapt their movements to perform and learn a variety of motor skills, ranging from activities of daily living to elite athlete performance. This course examines the underlying cognitive, sensory and motor processes of control and adaptation of human movements both at the behavioral and neurophysiological levels. Relevant applications to movement rehabilitation as well as performance optimization are employed to illustrate the concepts discussed in class. The cognitive, sensory and motor mechanisms underlying motor control are explored first and then in a motor learning context.

Please note, for Summer Term, restrictions will not apply.

WB21	Rodolphe Gentili	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

KNES389 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

KNES389K **Topical Investigations; Kinesiological Sciences Internship**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: KNES major and relevant KNES major classes.

Contact department for information to register for this course.

KNES451 **Children and Sport: A Psychosocial Perspective**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in KNES350. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.

Examination of youth sports from a psychosocial perspective, including the impact of highly structured sports on young athletes and the complex social network of coaches, parents and peers.

WB11	Elizabeth Brown	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

KNES462 **Neural Basis of Human Movement**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI201, BSCI202, and KNES385; or permission of SPHL-Kinesiology department. Restriction: Must have earned a minimum of 75 credits.

An introduction to the neural substrates which underlie postural and volitional movement. Neuroanatomical and neurophysiological basis of motor functioning; past and present conceptualizations of motor control and coordination; movement disorders; and maturation of the neuromuscular system.

WB11	Rodolphe Gentili	Seats (Total: 45)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

KNES497 **Kinesiology Senior Seminar**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: A professional writing course with a minimum grade of C-; and must have completed 6 KNES core courses and 2 KNES option courses, all with a C- or higher; and must have completed STAT100 with a C- or better. Restriction: Senior standing or higher; and must be in Kinesiology program; and permission of department.

Discussions of contemporary issues vital to the discipline, critiques of research in the student's area/areas of special interest, completion of a major project where the student will be asked to demonstrate the ability to carry out investigative processes in problem solving and critical writing under faculty direction.

Summer enrollment is by permission only. Please contact an advisor (advisingknes@umd.edu) if you are interested in enrolling in Kinesiology Senior Seminar.

Click here for more information.

WB11	Ronald Mower	Seats (Total: 10)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	Historicizing Modern Sport, Physical Education, and Physical Culture.	

KNES498 **Special Topics in Kinesiology; Special Topics in Kinesiology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Contact department for information to register for this course.

KNES621 **Teaching Elementary Physical Education**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be enrolled in Pre-K to 12 Physical Education Master of Education program. Credit only granted for: KNES689V or KNES621. Formerly: KNES689V.

Students will learn aspects of teaching elementary physical education including: characteristics of elementary school students, testing, grading, teaching lifetime skills, and effective teaching techniques using SHAPE America Standards.

IH60	Jason Semanoff	Seats (Total: 15)
	Meets July 11, 2022 - August 5, 2022	
	TuTh 3:30pm - 5:00pm	ONLINE
	Class time/details on ELMs	ONLINE

KNES689 **Special Problems in Kinesiology**

(Perm req)

Credits: 1-4 Grading Method: Regular

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

KNES778 **Internship in Physical Activity and Public Health**

Credits: 1-4 Grading Method: Regular

The internship is a time-limited, supervised period of public/community health activities carried out in a health or allied health organization involved with physical activity. Students gain practical experience in areas such as program planning and implementation, program evaluation, public policy analysis, research, and management.

I101	Shannon Jette	Seats (Total: 5)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

KNES786 **Capstone Project in Physical Activity and Public Health**

Credits: 3 Grading Method: Regular, Sat-Fail

Prerequisite: KNES600, KNES601, and KNES602.

The culminating experience in which the student applies knowledge and skills learned in the MPH program to conduct independent work on a physical activity problem under the supervision of a faculty advisor.

I201	Shannon Jette	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

KNES789 **Advanced Projects in Kinesiology**

Credits: 1-3 Grading Method: Regular

Advanced projects examining current problems and trends in kinesiology.

Contact department for information to register for this course.

KNES798 **Internship in Physical Education/Sports Management**

Credits: 1-8 Grading Method: Regular, Audit

Practical application of previously acquired skills and knowledge in a sport and/or physical education setting. Emphasis on selected experiences to enhance the total academic program of the student. The internship site assignment will depend upon student's background and career goals.

Restriction: Must be enrolled in PreK-12 Physical Education Master of Education program.

IH61	Cara Grant	Seats (Total: 15)
	Meets May 18, 2022 - June 24, 2022	
	Contact instructor or department for details.	

KNES799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

KNES898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

0101	Shannon Jette	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0201	Shannon Jette	Seats (Total: 20)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

KNES899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

LACS Latin American and Caribbean Studies Summer 2022

LACS348A **Special Topics in Latin American and Caribbean Studies; Online and in the Streets: Protest and Activism in Latin American Feminist Movements**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics to be announced when offered.

Cross-listed with WGSS379L and HIST328I. Credit only granted for LACS348A, WGSS379L, or HIST328I. An interdisciplinary approach to Latin American and Caribbean history, culture, and politics, through the lenses of feminist protest and activism. The class explores how activists fight for change, both online and in the streets and how feminists agendas changed over time. Taught in collaboration with Universidad Nacional de Tres Febrero, Argentina. Students will share discussions with students from Argentina and learn from scholars and activists from the Global South.

GC01	Sabrina Gonzalez	Seats (Total: 20)
	Meets July 11, 2022 - July 29, 2022	
	TuTh 4:00pm - 6:00pm	ONLINE
	Class time/details on ELMs	ONLINE

LARC Landscape Architecture Summer 2022

LARC151 **Urban Agriculture: Designing and Assessing Edible Landscapes**

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

Students will examine the growing development of urban agriculture and edible landscapes. Urban agriculture has seen a recent growth and interest in cities across the globe. From Paris to New York, from Baltimore to Detroit, urban agriculture is an emerging land use to address a variety of needs. Redevelopment, food deserts, community engagement and environmental justice are just some of the issues and topics that are connected to the recent growth of urban agriculture. This course will take a critical examination of urban agriculture's contribution to the food system, its input and outputs in the urban landscape, and the planning and design of urban agriculture and edible landscapes.

WB31	Sherry Russell **Meets May 31, 2022 - June 17, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB41	Sherry Russell **Meets July 11, 2022 - July 29, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE

LARC160 **Introduction to Landscape Architecture and Environmental Design**

Credits: 3 | Grading Method: Regular | CORE: HO | General Education: DSHU, DSSP

History, theory, philosophy and current practice of the profession of landscape architecture. Explores the interactive relationship between humans and their environment by examining people's perceptions of and changing attitude towards the landscape, as well as, an examination of how these are related to ecological and cultural influences. Topics include urban, ecological, community and creative design.

WB31	Colleen Vacelet **Meets May 31, 2022 - June 17, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE
WB41	Colleen Vacelet **Meets July 11, 2022 - July 29, 2022** Class time/details on ELMs	Seats (Total: 20) ONLINE

LARC162 **Environmental Justice: Same World, Different Built Environment**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP, SCIS

Environmental Justice will be explored in the context of the built environment. What unequal public built environmental threats exist? How can these threats be prevented or eliminated? Public schools, public parks, access to clean water, air pollution, tree coverage are among the built environments examined in the course.

WB41	Dora Cortez, Byoung-Suk Kweon	Seats (Total: 20)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

LARC451 **Sustainable Communities**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Explores concepts, strategies and examples of community design which address the needs of a growing population while preserving the environment and its resources.

Contact department for information to register for this course.

LARC489A **Special Topics in Landscape Architecture; Italy: Architecture and Music**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

This exciting course brings the piazzas, architecture, and ancient artifacts of Italy to your virtual classroom while exploring the common language of architecture and music. This is a course that is designed for all majors and knowledge of architecture or music is not required. We will explore design themes such as harmony, balance, rhythm, and tension and release by comparing designed open spaces, architecture, and musical vocabularies. After taking this course you will understand the beauty and significance of Italy's offerings and become much more interesting at future business/social gatherings. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration. Learn more about Global Classrooms: go.umd.edu/gc-umd.

Contact department for information to register for this course.

LARC489K **Special Topics in Landscape Architecture; Design Discovery UK: London and North Yorkshire**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

Contact department for information to register for this course.

LARC489O **Special Topics in Landscape Architecture; Computer-Aided Design and Drafting (CADD): Urban Construction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

WB41	Christopher Ellis	Seats (Total: 25)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

LARC499 **Independent Studies in Landscape Architecture**

(Perm req)

Credits: 1-4 Grading Method: Regular

Independent studies in landscape architecture including field, studio or library research under the direction of a faculty member.

Contact department for information to register for this course.

LARC699 **Independent Studies in Landscape and Architecture**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit, Sat-Fail

Individual Instruction course.

Contact department for information to register for this course.

LARC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Development of a terminal thesis on a problem in landscape architecture, designed to demonstrate comprehensive skills and knowledge achieved in the graduate program. The subject will be selected in consultation with an advisor and periodically reviewed with a committee headed by the advisor.

Contact department for information to register for this course.

LASC Certificate in Latin American Studies Summer 2022

LASC448F **Special Topics in Latin American and Caribbean Studies; Brazilian Ethnography**

Credits: 3 Grading Method: Regular

Intensive study of a selected topic related to Latin American and Caribbean Studies.

Contact department for information to register for this course.

LASC448G **Special Topics in Latin American and Caribbean Studies; Environmental Conservation and Indigenous Peoples**

Credits: 3 Grading Method: Regular

Intensive study of a selected topic related to Latin American and Caribbean Studies.

Contact department for information to register for this course.

LASC486 **Internship in Latin American/Caribbean Studies**

Credits: 1-3 Grading Method: Regular, Pass-Fail

Prerequisite: Student must have completed at least two LACS courses, one of which must be a required/core course (LACS/SPAN234, LACS/SPAN235, LACS/HIST250, or LACS/HIST251); and permission of Latin American Studies Center required. Restriction: Minimum cumulative GPA of 2.5; and must have earned a minimum of 60 credits. Credit only granted for: LASC486 OR LACS486. Formerly: LASC486. Additional information: The course is primarily intended for students seeking the Certificate in Latin American and Caribbean Studies, but exceptions will be considered for students with educational or career interests which lie in this area. Student internships must be approved by the Director, and students must secure an appropriate faculty mentor for the internship course. An internship course will be approved only if a faculty supervisor is available.

Internship experience with an organization that works with or studies Latin American and/or the Caribbean. This is an experiential learning course that provides semester-long training that enriches the student's academic field of study and the LACS Certificate. Students submit a final written report of their experience, including critical analysis of the institutional relevance to their major field of study and to Latin American and Caribbean Studies. Students will also be asked to give an oral presentation.

WB11	Eric Tomala	Seats (Total: 1)
	Meets May 31, 2022 - July 31, 2022	
	Class time/details on ELMs	ONLINE

LBSC Library Science Summer 2022

LBSC602 **Serving Information Needs**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC602, or both LBSC601 and LBSC650.

An introduction to the skills necessary to interact directly with individuals through the exploration of user behavior theory, strategies to locate and evaluate information from print and electronic resources, and policies and procedures to ensure that all individuals can become information literate.

WB11	Jesse Klein	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

LBSC631 **Achieving Organizational Excellence**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC631 or LBSC635.

Overview of the principles, practices, and techniques required for effective leadership and management. The innovative strategies, management responsibilities, and skills needed to achieve and sustain high organizational performance in information-based cultural institutions.

WB21	Kevin Washburn	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

LBSC644 **Collection Development**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Prerequisite: LBSC602; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC 644 or LBSC 708G. Formerly: LBSC 708G.

Activities through which library collections are systematically developed and managed are explored, especially the formulation and implementation of written collection development policies. Other specific topics include identification of user needs; collection evaluation; fund allocation among competing departments, subjects, and/or media; selection methods; intellectual freedom; storage alternatives; and cooperative collection development.

WB11	Travis Wagner	Seats (Total: 30)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

LBSC646 **Literature and Materials for Young Adults**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC646 or LBSC746. Formerly: LBSC746.

Survey of literature and other materials for older children and adolescents. Criteria for evaluating and using such materials as they relate to the needs, interests, reading abilities, and other capabilities of young readers.

WB11	Jennifer Sturge	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

LBSC671 **Creating Information Infrastructures**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC671, or LBSC670 and LBSC690.

Introduction to methods used to create, acquire, organize, manage and preserve information. Information systems currently used to support digital and physical libraries, databases, and repositories will be explored.

WB21	David Patrick	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

LBSC707 **Field Study in Information Service**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC602, LBSC671, and LBSC631; and must have completed an additional 9 credits. Or permission of instructor. Restriction: Must be in Library and Information Science (Master's) program; and permission of INFO-College of Information Studies.

Supervised internship experience in a library, archive, museum, or other information organization.

WB11	Abbie Basile	Seats (Total: 30)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

LBSC709 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Intensive individual study, reading, or research in an area of specialized interest under faculty supervision.

Contact department for information to register for this course.

LBSC791 **Designing Principled Inquiry**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC671, LBSC602, and LBSC631; and additional 9 credits of coursework applied to the MLIS degree. Or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Critical analysis of roles of information professions and institutions in integrating theory, methods, practice, policies, and values of the field, and applying them to the design of future information systems and services.

WB21	Ursula Gorham-Oscilowski	Seats (Total: 35)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

LBSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Intensive research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

LGBT Lesbian Gay Bisexual Transgender Studies Summer 2022

LGBT327 **Lesbian, Gay, Bisexual, and Transgender Film and Video**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHU, DVUP

Restriction: Junior standing or higher. Cross-listed with: ENGL359F. Credit only granted for: LGBT327 or ENGL359F.

Comparative analysis of forms, themes, and the politics of representation in film and video by and/or about LGBT people.

Also offered as ENGL359F. Credit granted for LBGT327 or ENGL359F.

WB41	James Goodwin	Seats (Total: 30)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

LGBT386 **Lesbian, Gay, Bisexual, and Transgender Community Organization Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular General Education: DSSP, DVCC

Prerequisite: 9 credits in LGBT courses. Restriction: Permission of LGBT Studies Program.

Supervised internship experience with a community organization that expressly serves lesbian, gay, bisexual, and transgender people. Students will be expected to relate course material to experience in an analysis of an organization's activities.

Contact department for information to register for this course.

LING Linguistics Summer 2022

LING200 **Introductory Linguistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Credit only granted for: HESP120 or LING200. Additional information: Does not count toward the Linguistics major and does not fulfill prerequisite requirements for all upper-level courses.

An exploration of the nature of human language, designed for non-majors. Introduction to the basic concepts and methodology of modern linguistic analysis (sound systems, word formation, sentence structure). Additional topics may include: semantics, pragmatics, social aspects of language, dialects, language change, acquisition, writing systems, typology, language universals, comparison with other communication systems, etc.

WB11	Michelle Morrison	Seats (Total: 23)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

LING499 **Directed Studies in Linguistics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Contact department for information to register for this course.

LING689 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Independent studies in grammatical theory.

0101	Instructor: TBA **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 2)
0201	Instructor: TBA **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 2)

LING698 **Directed Study**

(Perm req)

Credits: 3 Grading Method: Regular

Contact department for information to register for this course.

LING798 **Research Papers in Linguistics**

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

LING799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

LING889 **Directed Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

LING896 **Research Paper in Minor Area**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LING888.

This course is designed to strengthen the students' ability to do research in a minor area of expertise, and to help them create a publishable piece. In addition, the course constitutes part of a set of requirements to advance to doctoral candidacy.

0101	Instructor: TBA **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 1)
0201	Instructor: TBA **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)

LING898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

LING899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

MATH Mathematics Summer 2022

MATH107 **Introduction to Math Modeling and Probability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSMA

Prerequisite: Must have math eligibility of Math 107 or higher; and math eligibility is based on Math Placement Exam or successful completion of MATH003 with appropriate eligibility. Restriction: Not open to students majoring in mathematics, engineering, business, life sciences, and the physical sciences;; and must not have completed MATH120, MATH130, MATH136, or MATH140; and must not have completed MATH220; and must not have completed any MATH or STAT course with a prerequisite of MATH120, MATH130, MATH136, MATH140 or MATH220. Credit only granted for: STAT100, MATH107, or MATH113. Formerly: Math 110 and Math 111. Additional information: Students who have credits for MATH107 may not also receive credit for STAT100, or MATH113.

A goal is to convey the power of mathematics as shown by a variety of problems which can be modeled and solved by quantitative means. Also included is an introduction to probability. Topics include data analysis, equations, systems of equations, inequalities, elementary linear programming, Venn diagrams, counting, basic probability, permutations, combinations, tree diagrams, standard normal and normal distributions. The mathematics of finance is covered. The course includes problem solving and decision making in economics, management, and social sciences.

WB12	Matthew Griffin **Meets May 31, 2022 - July 8, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 30) ONLINE

MATH113 **College Algebra and Trigonometry**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSMA

Prerequisite: Must have math eligibility of MATH113 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH 003 with appropriate eligibility. Restriction: Must not have completed MATH115, MATH120, MATH130, MATH136, or MATH140; and must not have completed any course with a prerequisite of MATH120, MATH130, MATH136, MATH140 or MATH220; and must not have completed MATH112 or MATH220. Credit only granted for: Students who have credits for MATH113 may not also receive credits for MATH107, MATH110, MATH112, or MATH115.

Topics include elementary functions including graphs and applications of: polynomial, rational, exponential, and logarithmic functions. Systems of equations and applications. Trigonometric functions: angle and radian measure, graphs and applications.

PP01	Francesca Henderson **Meets July 5, 2022 - August 19, 2022** MWF 11:00am - 1:00pm	Seats (Total: 0) ONLINE
WB11	Karen McLaren **Meets May 31, 2022 - July 8, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 35) ONLINE
WB12	Nathan Janus **Meets May 31, 2022 - July 8, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 25) ONLINE
WB21	Sudheer Shukla **Meets July 11, 2022 - August 19, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 25) ONLINE

MATH115 **Precalculus**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSMA

Prerequisite: Must have math eligibility of MATH115 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH003 with appropriate eligibility. Or MATH113. Restriction: Must not have completed MATH140; and must not have completed any MATH or STAT course with a prerequisite of MATH140. Credit only granted for: Students who have credits for MATH115 may not also receive credits for MATH112 or MATH113.

Preparation for MATH120, MATH130 or MATH140. Elementary functions and graphs: polynomials, rational functions, exponential and logarithmic functions, trigonometric functions. Algebraic techniques preparatory for calculus.

CP01	Timothy Pilachowski **Meets June 27, 2022 - July 29, 2022** MTuWThF 9:00am - 11:00am *This secion is for Bridge Program students. Restricted to students in the Summer Bridge Program.*	Seats (Total: 20) PLS 1115
WB11	Shuo Liu **Meets May 31, 2022 - July 8, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 35) ONLINE
WB12	Randy Martinez **Meets May 31, 2022 - July 8, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 25) ONLINE
WB21	Melanka Wedige **Meets July 11, 2022 - August 19, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 35) ONLINE

MATH120 **Elementary Calculus I**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: FSAR, FSMA

Prerequisite: 1 course with a minimum grade of C- from (MATH113, MATH115). Or must have math eligibility of MATH120 or higher; and math eligibility is based on the Math Placement Test. Restriction: Not open to students majoring in mathematics, engineering, the biological sciences, biochemistry, chemistry, or the physical sciences. Credit only granted for: MATH120, MATH130, MATH136, or MATH140.. Formerly: MATH220.

Basic ideas of differential and integral calculus, with emphasis on elementary techniques of differentiation and applications.

WB11	Kayla Davie **Meets May 31, 2022 - July 8, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 40) ONLINE

WB12	Brendan Gramp **Meets May 31, 2022 - July 8, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 40) ONLINE
WB13	Maeve Wildes **Meets May 31, 2022 - July 8, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 30) ONLINE
WB21	Arghya Sadhukhan **Meets July 11, 2022 - August 19, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 40) ONLINE
WB22	Kayla Davie **Meets July 11, 2022 - August 19, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 20) ONLINE

MATH140 **Calculus I**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: MS	General Education: FSAR, FSMA

Prerequisite: Minimum grade of C- in MATH115. Credit only granted for: MATH120, MATH130, MATH136, or MATH140.

Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite and indefinite integrals, and calculation of area. The course is especially recommended for science, engineering and mathematics majors.

WB11	Tyler Simmons **Meets May 31, 2022 - July 22, 2022** MTuWThF 9:30am - 10:52am	Seats (Total: 25) ONLINE
WB12	Yichun Zhu **Meets May 31, 2022 - July 22, 2022** MTuWThF 9:30am - 10:52am	Seats (Total: 35) ONLINE
WB13	Yong Cui **Meets May 31, 2022 - July 22, 2022** MTuWThF 11:00am - 12:22pm	Seats (Total: 40) ONLINE

MATH141 **Calculus II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS

Prerequisite: Minimum grade of C- in MATH140. Credit only granted for: MATH121, MATH131, or MATH141..

Continuation of MATH140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series.

WB11	Pablo Cedillos **Meets May 31, 2022 - July 22, 2022** MTuWThF 8:00am - 9:22am	Seats (Total: 40) ONLINE
WB12	Muhammad Aftab **Meets May 31, 2022 - July 22, 2022** MTuWThF 9:30am - 10:52am	Seats (Total: 40) ONLINE
WB13	Jermain McDermott **Meets May 31, 2022 - July 22, 2022** MTuWThF 11:00am - 12:22pm	Seats (Total: 40) ONLINE

MATH206 **Introduction to Matlab**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH136, MATH140).

This course is intended to prepare students for subsequent courses requiring computation with MATLAB. Covers basics of MATLAB including simple commands, variables, solving equations, graphing differentiation and integration, matrices and vectors, functions, M-files and fundamentals of programming in the MATLAB environment. When offered in Winter and Summer terms, the course is offered in a format suitable for online distance learning.

WB21	Justin Wyss-Gallifent **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 70) ONLINE

MATH240 **Introduction to Linear Algebra**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141). Credit only granted for: MATH240, MATH341, or MATH461.

Basic concepts of linear algebra: vector spaces, applications to line and plane geometry, linear equations and matrices, similar matrices, linear transformations, eigenvalues, determinants and quadratic forms.

All sections will use MATLAB.

WB11	Ian Teixeira **Meets May 31, 2022 - July 22, 2022** MTuWThF 11:00am - 12:22pm	Seats (Total: 40) ONLINE
WB12	Haoran Li **Meets May 31, 2022 - July 22, 2022** MTuWThF 11:00am - 12:22pm	Seats (Total: 40) ONLINE

MATH241 **Calculus III**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH241 or MATH340.

Introduction to multivariable calculus, including vectors and vector-valued functions, partial derivatives and applications of partial derivatives (such as tangent planes and Lagrange multipliers), multiple integrals, volume, surface area, and the classical theorems of Green, Stokes and Gauss.

All sections will use MATLAB.

WB11	Yaqi Wu **Meets May 31, 2022 - July 22, 2022** MTuWThF 9:30am - 10:52am	Seats (Total: 40) ONLINE
WB12	Roohollah Ebrahimian **Meets May 31, 2022 - July 22, 2022** MTuWThF 9:30am - 10:52am	Seats (Total: 40) ONLINE

MATH246 **Differential Equations for Scientists and Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH246 or MATH341.

An introduction to the basic methods of solving ordinary differential equations. Equations of first and second order, linear differential equations, Laplace transforms, numerical methods and the qualitative theory of differential equations.

All sections will use MATLAB.

WB11	Weimin Jiang **Meets May 31, 2022 - July 8, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 40) ONLINE
WB12	Revati Jadhav **Meets May 31, 2022 - July 8, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 30) ONLINE
WB13	Terence Long **Meets May 31, 2022 - July 8, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 30) ONLINE
WB21	Siddharth Sharma **Meets July 11, 2022 - August 19, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 30) ONLINE
WB22	Kendall Williams **Meets July 11, 2022 - August 19, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 30) ONLINE

MATH310 **Introduction to Mathematical Proof**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH141; and must have completed or be concurrently enrolled in MATH240, MATH341, or MATH461; and must have completed or be concurrently enrolled in MATH241 or MATH340. Restriction: Must be in a major within the CMNS-Mathematics department; or permission of the CMNS-Mathematics department. Additional information: Math majors may not use this course to satisfy an upper-level requirement.

To develop the students' ability to construct a rigorous proof of a mathematical claim. Students will also be made aware of mathematical results that are of interest to those wishing to analyze a particular mathematical model. Topics will be drawn from logic, set theory, structure of the number line, elementary topology, metric spaces, functions, sequences and continuity.

0201	Justin Wyss-Gallifent **Meets July 11, 2022 - August 19, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 20) PHY 1219
WB11	Steven Chadwick **Meets May 31, 2022 - July 8, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 30) ONLINE

MATH401 **Applications of Linear Algebra**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH461, MATH240, MATH341).

Various applications of linear algebra: theory of finite games, linear programming, matrix methods as applied to finite Markov chains, random walk, incidence matrices, graphs and directed graphs, networks and transportation problems.

WB11	Todd Rowland **Meets May 31, 2022 - July 8, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 30) ONLINE

MATH406 **Introduction to Number Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH241, MATH246, MATH340, MATH341, MATH461); or permission of CMNS-Mathematics department.

Integers, divisibility, prime numbers, unique factorization, congruences, quadratic reciprocity, Diophantine equations and arithmetic functions.

WB21	Steven Chadwick **Meets July 11, 2022 - August 19, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 30) ONLINE

MATH410 **Advanced Calculus I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241); and minimum grade of C- in MATH310.

Subjects covered: sequences and series of numbers, continuity and differentiability of real-valued functions of one variable, the Riemann integral, sequences of functions and power series.

WB11	Roohollah Ebrahimian **Meets May 31, 2022 - July 22, 2022** MTuThF 11:00am - 12:20pm	Seats (Total: 20) ONLINE

MATH461 **Linear Algebra for Scientists and Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141; and must have completed a MATH or STAT course with a prerequisite of MATH141. Credit only granted for: MATH240, MATH341, or MATH461. Additional information: This course may not be used towards the upper level math requirements for MATH/STAT majors.

Basic concepts of linear algebra. This course is similar to MATH240, but with more extensive coverage of the topics needed in applied linear algebra: change of basis, complex eigenvalues, diagonalization, the Jordan canonical form.

All sections will use MATLAB.

WB11	Yoshihiro Shirai **Meets May 31, 2022 - July 8, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 35) ONLINE
WB21	Sanghoon Na **Meets July 11, 2022 - August 19, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 35) ONLINE

MATH462 **Partial Differential Equations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (MATH246, MATH341).

Linear spaces and operators, orthogonality, Sturm-Liouville problems and eigenfunction expansions for ordinary differential equations. Introduction to partial differential equations, including the heat equation, wave equation and Laplace's equation. Boundary value problems, initial value problems and initial-boundary value problems.

WB21	Manoussos Grillakis	Seats (Total: 20)
	Meets July 11, 2022 - August 19, 2022	
	MTuWThF 11:00am - 12:20pm	ONLINE

MATH463 **Complex Variables**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340).

The algebra of complex numbers, analytic functions, mapping properties of the elementary functions. Cauchy integral formula. Theory of residues and application to evaluation of integrals. Conformal mapping.

WB11	Terence Long	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	MTuWThF 9:30am - 10:50am	ONLINE

MATH480 **Algebra for Middle School Teachers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH214. Restriction: Must be a middle school teacher; and permission of CMNS-Mathematics department. Credit only granted for: MATH480 or MATH483. Additional information: Not applicable to MATH/STAT major or minor requirements.

Prepares teachers with elementary certification to teach Algebra 1 in middle school. Focuses on basic algebra concepts and related theoretical ideas.

Contact department for information to register for this course.

MATH689 **Research Interactions in Mathematics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

MATH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

MATH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MATH899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

MIEH Maryland Institute for Applied Environmental Health Summer 2022

MIEH300 **A Public Health Perspective: Introduction to Environmental Health**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132; and must have completed or be concurrently enrolled in SPHL100 or PHSC300. Restriction: Must have earned a minimum of 60 credits; and must be in Public Health Science program; or permission of SPHL-School of Public Health. Credit only granted for: SPHL498N or MIEH300. Formerly: SPHL498N.

Environmental health is that branch of public health that deals with the human health effects of exposure to chemical, physical, and biological agents in the community, workplace, and home. Activities within Environmental Health Sciences are associated with recognizing, assessing, understanding, and mitigating the impacts of chemical, physical, and biological agents as well as understanding how human behavior and action impacts the environment. This course focuses on the central concepts, principles, issues, and applications of the essential scientific components and strategies of control of major environmental health problems.

WB11	Kendall Bustad	Seats (Total: 70)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

MIEH309 **Environmental Health Research**

Credits: 1-3 Grading Method: Regular

This research-based course will provide undergraduates with the opportunity to work closely with one of the faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.

Contact department for information to register for this course.

MIEH400 **Introduction to Global Health**

Credits: 3 Grading Method: Regular General Education: DVUP

Prerequisite: Minimum grade of C- in MIEH300; and 1 course with a minimum grade of C- from (SPHL100, PHSC300). Restriction: Must be in the Public Health Science program or must have permission of the program director; and must have completed 60 credits. Credit only granted for: MIEH400 or SPHL498A. Formerly: SPHL498A.

Exploration of theoretical frameworks and practical perspectives on issues shaping the global health panorama. Determinants examined through: biological and epidemiological; social, cultural and economic; environmental and geographic; multi-section, legal and institutional perspectives with synopsis of how these issues are addressed by international and community organizations in developing countries.

WB21	Amir Sapkota	Seats (Total: 60)
	Meets July 11, 2022 - August 13, 2022	
	Class time/details on ELMs	ONLINE
	Class time/details on ELMs	ONLINE

MIEH407 **One Health: Food Safety and Security**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must have earned at least 75 credits . Jointly offered with: MIEH607. Credit only granted for: MIEH607 or MIEH407.

This is a collaborative course with the University of Maryland and Cairo University, Cairo, Egypt to explore the One Health Foundation and its application to improving international food safety and security. The purpose of this global undergraduate class is to disseminate knowledge on One Health and its application to improving global food safety and security. Students will apply principles of One Health to ensure food safety and food security in Egypt.

This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration. Learn more about Global Classrooms: go.umd.edu/gc-umd.

GC01	Muhiuddin Haider	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	MW 10:00am - 12:00pm	ONLINE
	Class time/details on ELMs	ONLINE

MIEH600 **Foundations of Environmental Health**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: HLTH761 or MIEH600. Formerly: HLTH761.

Overview of the chemical, physical and biological hazards present in our living and working environment and their effects on human health. Topics include: exposure assessment, industrial hygiene and safety, pesticides, community and indoor pollution, food-borne diseases, solid and hazardous wastes, water resources, risk assessment, ecological issues and environmental laws.

WB11	Paul Turner	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

MIEH607 **One Health: Food Safety and Security**

Credits: 3 Grading Method: Regular, Audit

Jointly offered with: MIEH407. Credit only granted for: MIEH407 or MIEH607.

This is a collaborative course among the University of Maryland and Cairo University, Cairo, Egypt to explore the One Health Foundation and its application to improving international food safety and security. The purpose of this global class is to disseminate knowledge on One Health and its application to improving global food safety and security. Students will have the opportunity to collaborate with Cairo University and the Agriculture Research Center in Egypt to explore the current status and challenges of global food safety and security.

This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration. Learn more about Global Classrooms: go.umd.edu/gc-umd.

GC01	Muhiuddin Haider **Meets May 31, 2022 - July 8, 2022** MW 10:00am - 12:00pm Class time/details on ELMs	Seats (Total: 20) ONLINE ONLINE

MIEH609 **Methods in Environmental Health**

Credits: 1-3 Grading Method: Regular

This research-based rotation in environmental health sciences will provide graduate students with the opportunity to work closely with faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research experience and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.

0101	Paul Turner **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0102	Amir Sapkota **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0104	Donald Milton **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

0107	Rachel Goldstein **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0201	Paul Turner **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0207	Rachel Goldstein **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0208	Devon Payne-Sturges **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

MIEH698A **Special Topics in Environmental Health; Bolivia: Global Health Lessons in Ecotourism and Community Health**

Credits: 3

Grading Method: Regular, Audit

Special topics in environmental health.

Also offered as EPIB489A and EPIB689A. Credit only granted for EPIB489A, EPIB689A, or MIEH698A. Students will have an unparalleled opportunity to learn about the difficulties of promoting health in remote areas with great biodiversity with so many environmental threats, so little economic resources, and at the same time, such a fantastic indigenous local knowledge. Students will complete online readings and short exercises before their departure to learn key concepts and two pre-departure orientation video conference meetings. In country, they will meet with indigenous community members and leading experts in ecohealth, protected areas management and agro- ecology as well as health professionals who provide care in remote areas of the Bolivian Amazon.

Contact department for information to register for this course.

MIEH698B **Special Topics in Environmental Health; Law, Public Health, and the Cuban Family**

Credits: 3

Grading Method: Regular, Audit

Special topics in environmental health.

Contact department for information to register for this course.

MIEH778 **Internship in Public Health**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

I101	Paul Turner **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I201	Paul Turner **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

MIEH786 **Capstone Project in Public Health**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Maryland Institute for Applied Environmental Health.

Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

0101	Paul Turner **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0102	Amir Sapkota **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0104	Donald Milton **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0107	Rachel Goldstein **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0201	Paul Turner **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

0203	Amy Sapkota **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0207	Rachel Goldstein **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0208	Devon Payne-Sturges **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

MIEH788 **Critical Readings in Environmental Health**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

In-depth examination and critical discussion of the current literature relevant to environmental health.

0101	Paul Turner **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0102	Amir Sapkota **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

0104	Donald Milton **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0107	Rachel Goldstein **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0201	Paul Turner **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

0206	Sacoby Wilson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0207	Rachel Goldstein **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0208	Devon Payne-Sturges **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

MIEH789 **Independent Study**

Credits: 1-6 Grading Method: Regular, Audit

Individual reading and/or research under a specific faculty member in the department.

Contact department for information to register for this course.

MIEH799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

MIEH898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

0101	Paul Turner **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0102	Amir Sapkota **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0104	Donald Milton **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

0105	Robin Puett **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0107	Rachel Goldstein **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

MIEH899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0101	Paul Turner **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0102	Amir Sapkota **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0104	Donald Milton **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

0106	Sacoby Wilson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0107	Rachel Goldstein **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0201	Paul Turner **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0207	Rachel Goldstein **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

0208	Devon Payne-Sturges	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

MLAW MPower Undergraduate Law Programs Summer 2022

MLAW358A **Selected Topics in Law and Society; Human Trafficking in Context: A Comparative Analysis**

Credits: 3 Grading Method: Regular

An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.

Although human trafficking occurs all over the world, the exacerbating factors vary by region and country. This course will offer students an opportunity to idenify and compare the causes of human trafficking in the United States and another country. Students will work with students from a partner university in an international location to better understand human trafficking in that location and how solutions to this global challenge will vary based on location. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration. Learn more about Global Classrooms: go.umd.edu/gc-umd.

Contact department for information to register for this course.

MLAW388 **Law and Society Internship**

Credits: 1-4 Grading Method: Regular

Participation in the Law and Society Internship (LASI) offers students the opportunity to enhance their education through practical skill building in the realm of law-related professionals.

Restricted to students in the Law and Society minor.

WB11	Brandee Pettus	Seats (Total: 35)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

MLSC MD Language Science Ctr Summer 2022

MLSC420 **Language at the Museum: Engaging the Public in Language Science**

(Perm req)

Credits: 3 Grading Method: Regular

Recommended: Background in language science or related fields. Restriction: Permission of instructor. Jointly offered with: MLSC620. Additional information: Students in the course must be able to commit to spending several hours per week at Planet Word during the term, and must arrange their own transportation to and from the museum.

Learn how to skillfully and confidently conduct language science research and engagement in a public setting. Course topics include research design, research ethics, science communication, and informal science learning. Experiential learning component involves significant weekly hours outside of class engaging in hands-on interaction with visitors at a museum about language in Washington DC.

By permission of instructor only. Class meets on Tuesdays (Zoom) from 3-6:30 PM and Thursdays (in-person) from 3-6:30 PM. Thursday in-person class and additional experiential learning hours to be held off-campus at the Planet Word museum in DC.

Before contacting the instructor, please see this link to learn more information about the course, and to answer a few questions about your background and interest.

0101	Charlotte Vaughn	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	Tu 3:00pm - 6:00pm Th 3:00pm - 6:30pm	ONLINE Location: TBA

MLSC620 **Language at the museum: Engaging the public in language science**

(Perm req)

Credits: 3 Grading Method: Regular

Recommended: All students should have some background in language science or related fields. Restriction: Permission of the instructor. Jointly offered with: MLSC420. Additional information: Students in the course must be able to commit to spending several hours per week at Planet Word during the term, and must arrange their own transportation to and from the museum.

Learn how to skillfully and confidently conduct language science research and engagement in a public setting. Course topics include research design, research ethics, science communication, and informal science learning. Experiential learning component involves significant weekly hours outside of class engaging in hands-on interaction with visitors at a museum about language in Washington DC.

By permission of instructor only. Class meets on Tuesdays (Zoom) from 3-6:30 PM and Thursdays (in-person) from 3-6:30 PM. Thursday in-person class and additional experiential learning hours to be held off-campus at the Planet Word museum in DC.

Before contacting the instructor, please see this link to learn more information about the course, and to answer a few questions about your background and interest.

0101	Charlotte Vaughn **Meets May 31, 2022 - July 8, 2022** Tu 3:00pm - 6:00pm Th 3:00pm - 6:30pm	Seats (Total: 6) ONLINE Location: TBA

MOCB Molecular and Cell Biology Summer 2022

MOCB699 **Laboratory Rotation**

Credits: 2-3 Grading Method: Sat-Fail

Laboratory experience in molecular-cell biology.

Contact department for information to register for this course.

MOCB899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0101	Instructor: TBA **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 30)
0182	Daniel Nelson **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0201	John Moult **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 2)
0206	Louisa Wu **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0263	Zhongchi Liu **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0277	Volker Briken **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

MSML Machine Learning Summer 2022

MSML606 **Algorithms and Data Structures for Machine Learning**

Credits: 3 Grading Method: Regular

Provides both a broad coverage of basic algorithms and data structures. Topics include sorting, searching, graph and string algorithms; greedy algorithm, branch-and-bound, dynamic programming and job scheduling; Arrays, linked lists, queues, stacks, and hash tables; Algorithm complexity, best/average/worst case analysis. Applications selected from machine learning problems.

PWS1	Manoj Franklin	Seats (Total: 50)
	Meets May 31, 2022 - August 19, 2022	
	M 6:00pm - 9:30pm	ONLINE
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Machine Learning.	

MSML612 **Deep Learning**

Credits: 3 Grading Method: Regular

Prerequisite: DATA603 or MSML603. Cross-listed with: DATA612. Credit only granted for: DATA612 or MSML612.

Provides an introduction to the construction and use of deep neural networks: models that are composed of several layers of nonlinear processing. The class will focus on the main features in deep neural nets structures. Specific topics include backpropagation and its importance to reduce the computational cost of the training of the neural nets, various coding tools available and how they use parallelization, and convolutional neural networks. Additional topics may include autoencoders, variational autoencoders, convolutional neural networks, recurrent and recursive neural networks, generative adversarial networks, and attention-based models. The concepts introduced will be illustrated by examples of applications chosen among various classification/clustering questions, computer vision, natural language processing.

PCS1	Samet Ayhan	Seats (Total: 50)
	Meets May 31, 2022 - August 19, 2022	
	Th 6:00pm - 9:30pm	ESJ B0320
	Must be in Graduate Programs in Science Academy.	

MUED Music Education Summer 2022

MUED698M **Current Trends in Music Education; Comprehensive Musicianship through Performance in Ensembles**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

A survey of current and emerging philosophies, methodologies and curricula in music education and their implementation. The influence of educational and social changes and the expanding musical scene upon the music programs for children of all ages and for teacher education.

0501	Stephanie Prichard	Seats (Total: 15)
	Meets June 21, 2022 - July 8, 2022	
	TBA	PAC 2130A
	Class time/details on ELMs	ONLINE

MUED698V **Current Trends in Music Education; Vocal Pedagogy for the Choral Conductor**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

A survey of current and emerging philosophies, methodologies and curricula in music education and their implementation. The influence of educational and social changes and the expanding musical scene upon the music programs for children of all ages and for teacher education.

WB21	Kenneth Elpus	Seats (Total: 50)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

MUSC School of Music Summer 2022

MUSC140 **Music Fundamentals I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSSP

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

Introductory theory course. Notation, scales, intervals, triads, rhythm, form and basic aural skills.

WB31	Jiheng Bi	Seats (Total: 20)
	Meets May 31, 2022 - June 17, 2022	
	TuWThF 10:00am - 12:00pm	ONLINE
	Class time/details on ELMs	ONLINE

MUSC205 **History of Popular Music, 1950-Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU, DVUP

A historical survey of rock music (blues, rock, soul, metal, rap, etc.) from circa 1950 to the present, with emphasis on popular music as music and popular music as social history.

WB31	Meghan Creek	Seats (Total: 40)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

MUSC220 **Selected Musical Cultures of the World**

Credits: 3 | Grading Method: Regular | CORE: HA, D | General Education: DSHU, DVUP

Restriction: Must not be in any of the following programs: (Music (Professional Program); Music Education).

A critical and comparative exploration of musical practices from around the world in their social, political and economic contexts.

WB41	Alexandria Pecoraro	Seats (Total: 40)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

MUSC269A **Special Topics in Study Abroad II; Enhancing Spanish Language and Cultural Knowledge Through Music**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

MUSC269I **Special Topics in Study Abroad II; History of Italian Music**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

MUSC388 **Music Internship**

(Perm req)

Credits: 3 | Grading Method: Regular

Pre-professional field work in music.

Contact department for information to register for this course.

MUSC389 **Music Internship Analysis; Music Internship Analysis**

(Perm req)

Credits: 1 Grading Method: Regular

Documentation and evaluation of field work experience.

Contact department for information to register for this course.

MUSC448 **Selected Topics in Music**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

MUSC499 **Independent Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent research on a topic chosen in consultation with the instructor, which may culminate in a paper or appropriate project.

Contact department for information to register for this course.

MUSC699 **Selected Topics in Music**

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

MUSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MUSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

NACS899 **Doctoral Dissertation Research**

Credits: 1-6 Grading Method: Sat-Fail

Indivdual instruction course: contact department or instructor to obtain section number

0102	Joshua Singer **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 1)
0112	John Aloimonos **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 1)
0114	Gregory Ball **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 1)
0202	Joshua Singer **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)
0210	Elizabeth Redcay **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)
0215	Rodolphe Gentili **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)

NEUR Neuroscience Summer 2022

NEUR200 **Introduction to Neuroscience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNS

Prerequisite: Minimum grade of C- in BSCI170 and BSCI171. Cross-listed with: PSYC202. Credit only granted for: PSYC309U, NEUR200, PSYC202 or PSYC301. Formerly: PSYC309U.

In an evolutionary sense, the job of the nervous system is to produce, control, and coordinate behaviors that help an animal survive and reproduce. Neuroscience is the study of how the nervous system does that. Provides a broad introduction to neuroscience, always keeping the behavioral consequences in view.

Credit only granted for PSYC 309U, NEUR 200, or PSYC 301

WB21	Jeremy Purcell	Seats (Total: 33)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

NEUR306 **Cellular and Molecular Neuroscience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Earning C- or higher in NEUR200 or BSCI330. Corequisite: Must have completed or be concurrently enrolled in PHYS132 or equivalent course. Credit only granted for: NEUR306 or BSCI353.

Students will gain an appreciation of neuroscience as the nexus of chemistry, physics, and biology. Additionally, they will gain an understanding of how: both individual and networks of neurons function as variable electrical circuits; our nervous systems transduce signals from the outside world and sets-off molecular cascades; the behavior of a neuron can be changed and or remain the same in response to changing variables. Techniques used to study the nervous system at a cellular and molecular level will be discussed.

WB11	Chan Lin	Seats (Total: 10)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	W 11:00am - 12:15pm	ONLINE

NFSC Nutrition and Food Science Summer 2022

NFSC100 **Elements of Nutrition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: LS General Education: DSNS

Fundamentals of human nutrition. Nutrient requirements related to changing individual and family needs.

WB11	Margaret Udahogora	Seats (Total: 35)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

NFSC103 **Nutrition and Sports Performance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Nutrition and Sports Performance would give students a brief overview of positive health-related outcomes of a physically active lifestyle. Students would design a fitness regimen and be able to describe when and how glycogen, blood glucose, fat, and protein are used to meet energy needs during different types of physical activity. They would be able to differentiate between anaerobic and aerobic use of glucose, and identify advantages and disadvantages of each. This course would outline how to estimate and athlete's calorie need and discuss the general principles for meeting overall nutrient requirements in the training diet. The problems associated with rapid weight loss by dehydration and the importance of water and/or sports drinks during exercise would be examined. An understanding of the importance of staying well-nourished with carbohydrate, protein, and various vitamins and minerals before, during, and after training would be discussed.

WB21	Melissa Rittenhouse	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

NFSC490 **Special Problems in Nutrition**

(Perm req)

Credits: 2-3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: NFSC440; and permission of AGNR-Nutrition and Food Science department.

Individually selected problems in the area of human nutrition.

Contact department for information to register for this course.

NFSC498A **Selected Topics; Individual Study**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC498G **Selected Topics; Ghana: A Feed the Future Classroom**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC498M **Selected Topics; Health Implications of the Mediterranean Diet and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC678A **Selected Topics in Nutrition**

Credits: 1-6 Grading Method: Regular, Audit

Individual or group study in an area of nutrition.

0201	Instructor: TBA **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0226	Seong-Ho Lee **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

NFSC699 **Problems in Nutrition and Food Science**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Credit according to time scheduled and magnitude of problem. An experimental program on a topic other than the student's thesis problem will be conducted. Four credits shall be the maximum allowed toward an advanced degree.

Contact department for information to register for this course.

NFSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

First and second semesters. Credit in proportion to work done and results accomplished. Investigation in some phases of foodservice administration which may form the basis of a thesis. results in the form of a thesis.

Contact department for information to register for this course.

NFSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

First and second semesters. Oral reports on special topics or recently published research in nutrition. Distinguished scientists are invited as guest lecturers. A maximum of three credits allowed for the M.S.

0101	Instructor: TBA **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)

0103	Qin Wang **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0115	Liangli Yu **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0116	Robert Buchanan **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 10)
0121	Rohan Tikekar **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0133	Shaik Rahaman **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0201	Instructor: TBA **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0203	Qin Wang **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0215	Liangli Yu **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)
0216	Robert Buchanan **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 10)

NFSC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

PERS Persian Summer 2022

PERS105 **Intensive Elementary Persian I**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Open to beginning learners of Persian only.

Intensive training in spoken and written Persian at elementary level. Basic literacy skills, vocabulary, pronunciation and grammar developed through a highly interactive approach. Substantial cultural component familiarizing students with cultural themes related to Iran and the Persian speaking world. Taught in Persian.

XL11	Elham Monfaredi	Seats (Total: 15)
	Meets May 31, 2022 - July 1, 2022	
	MTuWThF 9:00am - 5:00pm	HJP 1102

PERS106 **Intensive Elementary Persian II**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail

Prerequisite: Pre-requisite: PERS105, or equivalent, as determined by the FLPT (Foreign Language Placement Test).

Intensive training in spoken and written Persian at elementary level (ACTFL Novice High to Intermediate Low). Continues building basic literacy skills, vocabulary, and grammar through highly a interactive approach. Substantial cultural component familiarizing students with cultural themes related to Iran and the Persian speaking world. Taught in Persian.

XL21	Elham Monfaredi	Seats (Total: 15)
	Meets July 6, 2022 - July 29, 2022	
	MTuWThF 9:00am - 5:00pm	HJP 1102

PERS205 **Intensive Intermediate Persian I**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail

Prerequisite: PERS106; or equivalent as determined by Foreign Language Placement Test (FLPT).

Development of Persian language proficiency and cultural knowledge at the intermediate level (Intermediate-Mid on ACTFL scale). Taught in Persian.

XL11	Manizhe Galledari	Seats (Total: 15)
	Meets May 31, 2022 - July 1, 2022	
	MTuWThF 9:00am - 5:00pm	HJP 2123

PERS206 **Intensive Intermediate Persian II**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PERS205; or equivalent, as determined by the FLPT (Foreign Language Placement Test).

Designed to further develop Persian language proficiency and cultural knowledge at an intermediate level (Intermediate High on ACTFL scale). Taught in Persian.

XL21	Manizhe Galledari	Seats (Total: 15)
	Meets July 6, 2022 - July 29, 2022	
	MTuWThF 9:00am - 5:00pm	HJP 2123

PERS405 **Media and the Current Issues in Iranian Society**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PERS306; or equivalent as determined by FLPT (Foreign Language Placement Test).

Develops Persian language proficiency and domain-specific knowledge at advanced-mid to advanced-high level on ACTFL scale. Enhances linguistic and cultural competence. Provides a broad understanding of some of the current social, political and economic issues in modern Iran. Taught in Persian.

Registration is limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL11	Parvaneh Rezaee	Seats (Total: 15)
	Meets May 31, 2022 - July 1, 2022	
	MTuWThF 9:00am - 5:00pm	HJP 3117

PERS406 **Practicum in Persian Translation**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PERS306; or equivalent as determined by the FLPT (Foreign Language Placement Test).

Provides opportunities for translation, interpretation, and analysis of various authentic oral and written texts (both English to Persian and Persian to English). Facilitates the development of Persian language proficiency at advanced level through a task-based approach that integrates all the language skills in pedagogical translation activities.

Registration is limited to students accepted into the Summer Language Institute.

Click here for more course information.

XL21	Parvaneh Rezaee	Seats (Total: 15)
	Meets July 6, 2022 - July 29, 2022	
	MTuWThF 9:00am - 5:00pm	HJP 3117

PHIL Philosophy Summer 2022

Click here for detailed course descriptions.

PHIL100 **Introduction to Philosophy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

An introduction to the literature, problems, and methods of philosophy either through a study of some of the main figures in philosophic thought or through an examination of some of the central and recurring problems of philosophy.

An introduction to philosophy that focuses on three central themes in Western philosophy: the nature of death and the possibility of an afterlife (e.g. would immortality in paradise be desirable?), the nature of minds and artificial intelligence (e.g. is the rise of artificial intelligence an existential threat to humankind?), and finally, the ethics of life and death (e.g. is it wrong to have children?)

WB41	Jonathan Kendrick	Seats (Total: 30)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

PHIL140 **Contemporary Moral Issues**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

The uses of philosophical analysis in thinking clearly about such widely debated moral issues as abortion, euthanasia, homosexuality, pornography, reverse discrimination, the death penalty, business ethics, sexual equality, and economic justice.

An introduction to the tools and concepts of ethics (and ethical argumentation) through a survey of three topics of current relevance: (i) our relation to the environment; (ii) communities and migration; (iii) technology and privacy.

WB41	Benjamin Fan	Seats (Total: 30)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

PHIL171 **Reasoning For Humans: Clear Thinking in an Uncertain World**

Credits: 3 | Grading Method: Regular, Audit | General Education: FSAR

Credit only granted for: PHIL171 or PHIL218A. Formerly: PHIL218A.

Reasoning is a transition in thought in which some beliefs or thoughts provide grounds or reasons for others. What makes certain transitions of thought rational or reasonable and others irrational or erratic is a major focus of investigation in diverse research areas, such as philosophy, logic, artificial intelligence, cognitive science, and psychology. This course is an introduction to logic and probability with a focus on applications to the study of the foundations of human reasoning.

WB31	Michael McCourt	Seats (Total: 30)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

PHIL202 **Know Thyself: Wisdom Through Cognitive Science**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSHU, SCIS

Credit only granted for: PHIL209N or PHIL202. Formerly: PHIL209N.

How do we improve our decision making? Cognitive science demonstrates that self-knowledge isn't as easy as we think, and that there are numerous biases and fallacies that impact our decision-making in ways that are hard for us to be aware of. In this course you will learn what some of these are and how they have been discovered, and you will explore potential strategies for avoiding these fallacies and for making wiser choices.

WB51	Aida Roige Mas	Seats (Total: 30)
	Meets June 21, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

PHIL203 **The Rights and Wrongs of Killing People**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, SCIS

Credit only granted for: PHIL209J or PHIL203. Formerly: PHIL209J.

Virtually everyone thinks it's permissible to kill people only in special circumstances. But why is killing usually wrong? Is it ever acceptable to kill an innocent human being intentionally? This course raises these and related questions and examines cases such as terrorism, suicide, abortion, euthanasia, the death penalty, war. Except for a brief discussion of animals, all the controversies considered deal with killing and causing death to human beings.

WB31	Shen Pan	Seats (Total: 30)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

PHIL209T **It's About Time**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HO	General Education: DSHU, SCIS

Do moments cease to exist when they recede into the past? Does time actually pass, or is it just a psychological illusion? Using time travelas our central example, we'll examine these questions through the lens of philosophy, science fiction, and physics

WB61	Jimmy Licon	Seats (Total: 30)
	Meets August 1, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

PHIL220 **Bioethics: Regulating Right and Wrong**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHU, DSSP

Credit only granted for: PHIL209A or PHIL220. Formerly: PHIL209A.

Bioethicists formulate ethical guidelines. They answer questions such as: When life-saving health resources are scarce, who should get them? Should we increase supply of one such resource, kidneys, by buying them from living "donors"? If drug trials in developing countries benefit patients who consent to participate, are the trials ethical, even if the same research would be forbidden in the US? If a sick person aims to hasten her death, how, if at all, might her doctor permissibly help her? In this course, students construct and defend ethical rules in four domains: research ethics, allocation of scarce resources, markets in organs, and physician-assisted dying.

WB61	Cody Britson	Seats (Total: 30)
	Meets August 1, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

PHIL308 **Studies in Contemporary Philosophy; Indigenous American Philosophies**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit

Problems, issues, and points of view of current interest in philosophy.

WB31	Casey Enos	Seats (Total: 30)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

PHIL498 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

PHIL498F **Topical Investigations; Topical Investigation**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

WB11	Fabrizio Cariani	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

PHIL688 **Selected Problems in Philosophy**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

PHIL788 **Research in Philosophy**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

PHIL799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department to make arrangements.

Contact department for information to register for this course.

PHIL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PHIL899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department to make arrangements.

Contact department for information to register for this course.

PHPE Philosophy, Politics, and Economics Summer 2022

PHPE408J **Advanced Topics in Philosophy, Politics, and Economics**

Credits: 3 Grading Method: Regular, Pass-Fail

A sustained investigation of a topic at the intersection of philosophy, politics and economics.

WB31	Casey Enos	Seats (Total: 30)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

PHSC Public Health Science Summer 2022

PHSC389 **Independent Research Study in Public Health Science**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail

This independent research-based experience will provide the opportunity for students to work with individual research mentors in the area of Public Health Science. Students must identify a mentor prior to obtaining departmental permission.

I101	Nancy Smith	Seats (Total: 10)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

PHSC399 **Public Health Science Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail

The Public Health Science internship will enable students to gain practical experience under conditions conducive to academic, research and professional development. The internship is a time-limited, supervised period of public health professional experience carried out in a related professional organization or research setting.

I101	Nancy Smith	Seats (Total: 10)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

PHSC415 **Essentials of Public Health Biology: The Cell, The Individual, and Disease**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in BSCI202. Recommended: BSCI223. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC415, SPHL415 or SPHL498J. Formerly: SPHL415 and SPHL498J.

Presents the basic scientific and biomedical concepts of modern public health problems and explores in depth mechanisms and models of the major categories of disease. The biologic principles presented are foundations to public health disease prevention, control, or management programs.

WB11	Jessica O'Hara	Seats (Total: 45)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

PHSC430 **Public Health in the City: Perspectives on Health in the Urban Environment**

Credits: 3 Grading Method: Regular General Education: DSHS, DVUP, SCIS

Prerequisite: Minimum grade of C- in BSCI202 and MIEH300. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC430 or SPHL498G. Formerly: SPHL498G.

Exposure to issues related to city habitation and the health of the public, including how the urban environment impacts the lives and health of city dwellers, including discussion of the social determinants of health. Students are encouraged to think about urban health and policy, and to question the current state of urban public health. Issues of race, class, and equality will be discussed throughout the course as they relate to each of these topics.

WB21	Kendall Bustad	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

PHSC497 **Public Health Science Capstone**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: Must have completed the professional writing requirement with a C- or higher; and minimum grade of C- in MIEH400. Restriction: Must have earned a minimum of 100 credits; and must be in Public Health Science program; and must be in the final semester of undergraduate study. Credit only granted for: SPHL498F or PHSC497. Formerly: SPHL498F.

The capstone course is the culminating experience for Public Health Science students and must be taken only in the final semester of study. The Public Health Science capstone course is designed to challenge students to integrate the five core areas of public health in investigating, researching and addressing public health issues. Throughout the semester, students will be required to evaluate, analyze and synthesize scholarly works as they research and propose solutions to a variety of public health issues. By the conclusion of this research based course, students will understand how the various public health perspectives can combine in addressing and informing public health practices.

WB11	Lakeshia Watson	Seats (Total: 15)	
	Meets May 31, 2022 - August 19, 2022		
	W 4:00pm - 6:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	
	Summer enrollment is by permission only. Please contact an advisor (phsc@umd.edu) if you are interested in enrolling in Public Health Science Capstone.		
WB12	Lakeshia Watson	Seats (Total: 5)	
	Meets May 31, 2022 - August 19, 2022		
	Class time/details on ELMs	ONLINE	

PHYS Physics Summer 2022

PHYS121 **Fundamentals of Physics I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Prerequisite: MATH112 or MATH115. Credit only granted for: PHYS121, PHYS131, or PHYS331.

The first part of a two-semester course in general physics treating the fields of mechanics, heat, sound, electricity, magnetism, optics, and modern physics. Together with PHYS122, this generally satisfies the minimum requirement of medical and dental schools.

Students must pay a $50.00 Laboratory Materials fee.

0181	Matt Severson	Seats (Total: 24)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 5:30pm - 6:50pm	PHY 1201	
	TuTh 7:00pm - 9:00pm	PHY 3306	Lab
	MW 7:00pm - 7:50pm	PHY 1201	Discussion

0182	Matt Severson	Seats (Total: 24)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 5:30pm - 6:50pm	PHY 1201	
	MW 7:00pm - 9:00pm	PHY 3306	Lab
	TuTh 7:00pm - 7:50pm	PHY 1201	Discussion

PHYS122 **Fundamentals of Physics II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Prerequisite: PHYS121; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS122, PHYS132, or PHYS332.

A continuation of PHYS121, which together with it, generally satisfies the minimum requirement of medical and dental schools.

Students must pay a $50.00 Laboratory Materials fee.

0201	Hailu Gebremariam	Seats (Total: 28)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWThF 5:30pm - 6:50pm	PHY 1201	
	TuTh 7:00pm - 9:00pm	PHY 3312	Lab
	MW 7:00pm - 8:00pm	PHY 1201	Discussion
0202	Hailu Gebremariam	Seats (Total: 28)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWThF 5:30pm - 6:50pm	PHY 1201	
	MW 7:00pm - 9:00pm	PHY 3312	Lab
	TuTh 7:00pm - 8:00pm	PHY 1201	Discussion

PHYS131 **Fundamentals of Physics for Life Sciences I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131; and (MATH136 or MATH140); and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Credit only granted for: PHYS121, PHYS131, or PHYS331.

The first part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic mechanics including forces and energy, properties of matter, and thermodynamics done in authentic biological contexts.

0101	David Buehrle	Seats (Total: 24)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 9:30am - 10:50am	PHY 1201	
	TuTh 12:00pm - 1:50pm	PHY 3310	Lab
	MW 11:00am - 11:50am	PHY 3310	Discussion

PHYS132 **Fundamentals of Physics for Life Sciences II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS131; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS122, PHYS132, or PHYS332.

The second part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic statistical physics, electricity and magnetism, and optics done in authentic biological contexts.

0201	David Buehrle	Seats (Total: 24)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWThF 9:30am - 10:50am	PHY 1201	
	TuTh 12:00pm - 1:50pm	PHY 3312	Lab
	MW 11:00am - 11:50am	PHY 3312	Discussion

PHYS141 **Principles of Physics**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: PL General Education: DSNL

Corequisite: MATH141 or MATH121; or MATH221. Credit only granted for: PHYS141, PHYS161, or PHYS171.

The first of a two-semester series in general physics. The first semester covers the fields of mechanics, thermodynamics, and special relativity. This survey course will use calculus and is recommended for chemistry and zoology majors. It also satisfies the requirements of medical and dental schools.

0181	Matt Severson	Seats (Total: 20)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 5:30pm - 6:50pm	PHY 1201	
	TuTh 7:00pm - 9:00pm	PHY 3219	Lab
	MW 7:00pm - 7:50pm	PHY 1219	Discussion

PHYS142 **Principles of Physics**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Prerequisite: PHYS141; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS142, (PHYS260 and PHYS261), or PHYS272.

A continuation of PHYS141 covering waves, electricity and magnetism, optics and modern physics.

0201	Hailu Gebremariam	Seats (Total: 12)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWThF 5:30pm - 6:50pm	PHY 1201	
	TuTh 7:00pm - 9:00pm	PHY 3213	Lab
	MW 7:00pm - 7:50pm	MTH 0302	Discussion

PHYS161 **General Physics: Mechanics and Particle Dynamics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS

Prerequisite: Must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171.

First semester of a three-semester calculus-based general physics course. Laws of motion, force, and energy; principles of mechanics, collisions, linear momentum, rotation, and gravitation.

0101	Matt Severson	Seats (Total: 38)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 2:30pm - 3:50pm	PHY 1219	
	TuTh 1:30pm - 2:20pm	PHY 1219	Discussion

PHYS260 **General Physics: Vibration, Waves, Heat, Electricity and Magnetism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS261)

Prerequisite: PHYS161 and MATH141. Corequisite: PHYS261. Credit only granted for: PHYS142, PHYS260, or PHYS272.

Second semester of a three-semester calculus-based general physics course. Vibrations, waves, fluids; heat, kinetic theory, and thermodynamics; electrostatics, circuits, and magnetism. PHYS260 and PHYS261 must be taken in the same semester.

0201	David Buehrle	Seats (Total: 36)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWThF 11:00am - 12:20pm	PHY 1201	
	TuTh 10:00am - 10:50am	PHY 2124	Discussion

PHYS261 **General Physics: Mechanics, Vibrations, Waves, Heat (Laboratory)**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS161.

Lab includes experiments on mechanics, vibrations, waves, and heat. Engineering majors are expected to take PHYS260 and PHYS261 in the same semester.

Students must pay a $50.00 Laboratory Materials fee.

0201	David Buehrle	Seats (Total: 36)	
	Meets July 11, 2022 - August 19, 2022		
	TuTh 1:00pm - 4:00pm	PHY 3219	Lab

PHYS270 **General Physics: Electrodynamics, Light, Relativity and Modern Physics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS271)

Prerequisite: PHYS261, MATH241, and PHYS260. Corequisite: PHYS271.

Third semester of a three-semester calculus-based general physics course. Electrodynamics, Maxwell's equations and electromagnetic waves, geometrical optics, interference, diffraction, special theory of relativity, and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester.

0101	David Buehrle	Seats (Total: 24)	
	Meets May 31, 2022 - July 8, 2022		
	MTuWThF 11:00am - 12:20pm MW 10:00am - 10:50am	PHY 1201 PHY 1219	Discussion

PHYS271 **General Physics: Electrodynamics, Light, Relativity and Modern Physics (Laboratory)**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261. Corequisite: PHYS270.

Lab includes experiments on ac circuits, magnetism, light and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester.

Students must pay a $50.00 Laboratory Materials fee.

0101	David Buehrle	Seats (Total: 24)	
	Meets May 31, 2022 - July 8, 2022		
	MW 1:00pm - 4:00pm	PHY 3213	Lab

PHYS273 **Introductory Physics: Waves**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241 and PHYS272. Corequisite: PHYS274.

Oscillations and AC circuits using complex variables, Fourier series and integrals, waves on strings, sound; electromagnetic waves from Maxwell's equations in differential form; physical optics.

0201	Hailu Gebremariam	Seats (Total: 20)
	Meets July 11, 2022 - August 19, 2022	
	MTuWThF 2:00pm - 3:20pm	PHY 1219
WB21	Hailu Gebremariam	Seats (Total: 20)
	Meets July 11, 2022 - August 19, 2022	
	MTuWThF 2:00pm - 3:20pm	ONLINE

PHYS299 **Special Problems in Physics**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement courses taken elsewhere which are not fully equivalent to those in departmental requirements. Credit according to work done.

Contact department for information to register for this course.

PHYS399 **Special Problems in Physics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced experiments. (Will be given with sufficient demand.)

Contact department for information to register for this course.

PHYS499 **Special Problems in Physics**

(Perm req)

Credits: 1-16 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

Contact department for information to register for this course.

PHYS499F **Special Problems in Physics; Quantum Boot Camp**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

Prerequisites: MATH141 and either MATH240 or PHYS274; or equivalent course work. Cross-listed with CMSC488A, CHPH499F, and ENEE489F. Credit granted for PHYS499F, CMSC488A, CHPH499F, or ENEE489F. Designed for computer science, engineering and mathematics majors. Introduces basic concepts and techniques widely used in quantum information science.

0501	Charles Clark	Seats (Total: 38)
	Meets June 21, 2022 - July 8, 2022	
	TuTh 10:00am - 12:30pm	ATL 3100A

PHYS798 **Special Problems in Advanced Physics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department to make arrangements.

Contact department for information to register for this course.

PHYS798V **Special Problems in Advanced Physics; Laser Application to Accelerators**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798W **Special Problems in Advanced Physics; Microwave Sources**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798X **Special Problems in Advanced Physics; Control Room Accelerator Physics**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

PHYS898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PHYS899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

PLCY Public Policy Summer 2022

PLCY201 **Public Leaders and Active Citizens**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DSSP, SCIS

Credit only granted for: PLCY201 or PUAF201. Formerly: PUAF201.

Aims to inspire, teach and engage students in the theory and practice of public leadership from the local to the national to the global level. Students will learn and apply diverse approaches to leadership in a multicultural society while developing an understanding of key frameworks and practices necessary to foster collective action across private, public, and nonprofit sectors. This course will allow students to become informed citizens able to reason critically and persuasively about public matters Students will also explore and assess their own personal values, beliefs, and purpose as they develop their leadership potential.

0101	Nancy Lineman	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	M 5:00pm - 7:00pm	ASY 3221
	W 5:00pm - 7:00pm	ONLINE
	Class time/details on ELMs	ONLINE

PLCY301 **Sustainability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Cross-listed with: AGNR301. Credit only granted for: AGNR301, PUAF301, or PLCY301. Formerly: PUAF301.

Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?

WB31	Edward Sinnes	Seats (Total: 40)
	Meets May 31, 2022 - June 17, 2022	
	MTuWThF 2:00pm - 5:00pm	ONLINE

PLCY302 **Examining Pluralism in Public Policy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Credit only granted for: PLCY302 or PUAF302. Formerly: PUAF302.

Understanding pluralism and how groups and individuals coexist in society is an essential part of the public policy process. This course will examine the ways in which the diverse experiences of race, gender, ethnicity, class, orientation, identity, and religion impact the understanding of and equitable delivery of public policy. The examination of how identity development shapes our understanding of society and influences the decision-making process is central to students' shaping policy that is truly for the people. This course will equip students with the skills needed to analyze pluralism and draw conclusions about the application of various theories to public policy issues.

0101	Ebonie Cooper-Jean	Seats (Total: 23)
	Meets May 31, 2022 - July 8, 2022	
	TuTh 11:00am - 1:00pm Class time/details on ELMs	ASY 3217 ONLINE

PLCY309 **Internship in Political Institutions: State and Local**

(Perm req)

Credits: 3-6 | Grading Method: Regular, Pass-Fail

Offers students supervised internship placements in state and local political or public policy organizations.

I101	Jennifer Littlefield	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

I201	Jennifer Littlefield	Seats (Total: 20)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

PLCY359E **Contemporary Issues in Political Leadership and Participation; Ethiopia: Policy and Politics of Economic Development in Africa**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in political leadership and participation.

Contact department for information to register for this course.

PLCY388Y **Special Topics in Public Policy; Critical Policy Issues on Weapons of Mass Destruction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

Contact department for information to register for this course.

PLCY640 **Microeconomic and Policy Analysis**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY640 or PUAF640. Formerly: PUAF640.

Applies intermediate microeconomic theory to public policy issues: resource allocation by firms and consumers; the response of economic agents to changes in incentives; market allocations in competitive and non-competitive environments; and market failures and government remedies. Uses extended case studies of particular issues in such areas as the environment (acid rain), international trade (tariffs), industry regulation (cable TV), and the provision of public goods (highways).

MP01	Michael Busse	Seats (Total: 15)
	Meets May 31, 2022 - August 19, 2022	
	M 6:00pm - 9:00pm	JMZ 1122
	Contact instructor or department for details.	

PLCY641 **Macroeconomics and Policy Analysis**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY641 or PUAF641. Formerly: PUAF641.

Studies the behavior of the economy as a whole: the level of national income, unemployment, and inflation; the vulnerability of the U.S. economy to external influences; possible federal influence over the level of economic activity; and the consequences for prices, employment and the U.S. trade deficit. Also examines possible U.S. policy responses to widespread debt crises in developing countries.

WB21	Seth Weissman	Seats (Total: 20)	
	Meets July 11, 2022 - August 19, 2022		
	MW 6:00pm - 9:15pm	ONLINE	
	TuTh 6:00pm - 9:15pm	ONLINE	Discussion

PLCY670 **Public Budgeting & Financial Management**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLYC670 or PUAF670. Formerly: PUAF670.

Covers how governments raise, spend, borrow, and manage public funds. Reviews federal,state, and local budget processes and introduces analytical techniques including basic spreadsheet skills, evaluating alternative revenue sources, revenue and expenditure forecasting, cost allocation, capital budgeting, cost-benefit analysis, discounting and present value, bond analysis, cash management and intergovernmental finance.

WB11	Juan Martinez Guzman	Seats (Total: 25)	
	Meets May 31, 2022 - August 19, 2022		
	W 6:00pm - 9:30pm	ONLINE	

PLCY688G **Topics in Public Policy; Governance: Leadership, Management & Accountability**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

Restricted to PLCY major or permission of instructor.

0101	Elizabeth Duke	Seats (Total: 20)	
	Meets May 31, 2022 - July 8, 2022		
	Tu 5:30pm - 9:00pm	VMH 1107	
	Th 5:30pm - 9:00pm	ONLINE	

PLCY689D **Public Policy Topics; Social Entrepreneurship**

Credits: 1-3

Grading Method: Regular, Audit, Sat-Fail

Special Topics in Public Policy.

Contact department for information to register for this course.

PLCY689X **Public Policy Topics; Performance Management**

Credits: 3

Grading Method: Regular, Audit

Special Topics in Public Policy.

Contact department for information to register for this course.

PLCY698Y **Selected Topics in Public Affairs; Critical Policy Issues on Weapons of Mass Destruction**

Credits: 3

Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699D **Selected Topics Public Policy; Examining Social Identity & Pluralism in Public Policy**

Credits: 3

Grading Method: Regular, Audit, Sat-Fail

Special topics that arise in public policy.

MP01	Patricia Bory	Seats (Total: 25)
	Meets June 2, 2022 - August 18, 2022	
	W 6:00pm - 9:00pm	ONLINE
	Class time/details on ELMs	ONLINE

PLCY699E **Selected Topics Public Policy; Social Policy Implications of Big Data and Artificial Intelligence**

Credits: 3

Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699G **Selected Topics Public Policy; Leadership in Groups and Organizations**

Credits: 3

Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699N **Selected Topics Public Policy; Program Evaluation & Applied Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

CA01	Douglas Call, Douglas Besharov **Meets June 13, 2022 - June 24, 2022** MTuWThF 9:00am - 1:00pm	Seats (Total: 15) Location: TBA
PGY1	Douglas Besharov, Douglas Call **Meets June 13, 2022 - June 24, 2022** MTuWThF 9:00am - 1:00pm *Must be in the Program Planning, Monitoring, and Evaluation (GC). All other graduate students must request permission. Contact oes@umd.edu.*	Seats (Total: 30) Location: TBA

PLCY711 **Public Management and Leadership**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY711 or PUAF711. Formerly: PUAF711.

Reviews the managerial, political, and ethical problems faced by public sector managers and leaders, including setting an organization's goals, obtaining and protecting a program mandate, designing a service delivery system and implementing a new program.

Contact department for information to register for this course.

PLCY752 **Managing Differences:Resolving Conflict and Negotiating Agreements**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY752 or PUAF752. Formerly: PUAF752.

Enhances the student's negotiation and leadership skills for managing differences between individuals and groups. Students study the nature of conflict, learn how to handle two and multiparty conflicts, exerting leadership where there are no hierarchy leaders, and explore the impact of facilitators and mediators on the negotiating process. Blends skill building exercises and theory discussions about the behavior of groups and individuals in groups to understand negotiation dynamics.

WB11	Quentin Hill	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	TuTh 6:00pm - 9:30pm	ONLINE
	Class time/details on ELMs	ONLINE

PLCY790 **Project Course**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY790 or PUAF790. Formerly: PUAF790.

Students work at a sponsoring government agency or private firm researching problem of interest to sponsor and relevant to concentration. Emphasis on problem definition, organizing information, and both oral and written presentation of results.

Contact department for information to register for this course.

PLCY798A **Readings in Public Policy**

Credits: 1-3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PLCY798C **Readings in Public Policy; Science and Technology Policy**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PLCY898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

I131	Irving Mintzer	Seats (Total: 1)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

PLCY899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0115	Peter Reuter **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0241	Carol Graham **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)
0261	Nathan Hultman **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)
I145	Philip Joyce **Meets May 31, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)

PSYC Psychology Summer 2022

PSYC100 Introduction to Psychology

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DSNS

A basic introductory course intended to bring the student into contact with the major problems confronting psychology and the more important attempts at their solution.

WB11	Benjamin Jones **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 75) ONLINE
WB12	Dirk Parham **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB21	Benjamin Jones **Meets July 11, 2022 - August 19, 2022** Class time/details on ELMs	Seats (Total: 75) ONLINE

PSYC200 Statistical Methods in Psychology

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: PSYC100; and 1 course with a minimum grade of C- from (STAT100, MATH107, MATH111, MATH120, MATH130, MATH136, or MATH140). Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201.

A basic introduction to quantitative methods used in psychological research.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB11	Tracy Tomlinson	Seats (Total: 75)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	
	F 9:00am - 10:45am	ONLINE	Lab

PSYC202 **Introduction to Neuroscience**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS

Prerequisite: Minimum grade of C- in BSCI170 and BSCI171. Cross-listed with: NEUR200. Credit only granted for: PSYC309U, NEUR200, PSYC202 or PSYC301. Formerly: PSYC309U.

In an evolutionary sense, the job of the nervous system is to produce, control, and coordinate behaviors that help an animal survive and reproduce. Neuroscience is the study of how the nervous system does that. Provides a broad introduction to neuroscience, always keeping the behavioral consequences in view.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB21	Jeremy Purcell	Seats (Total: 33)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

PSYC221 **Social Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DSSP

Prerequisite: PSYC100.

The influence of social factors on the individual and on interpersonal behavior. Includes topics such as conformity, attitude change, personal perception, interpersonal attraction, and group behavior.

Click here for sample course syllabus.

WB11	Dirk Parham **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 50) ONLINE	
WB41	Fanita Tyrell **Meets July 11, 2022 - July 29, 2022** MTuWThF 1:00pm - 3:00pm Class time/details on ELMs	Seats (Total: 15) ONLINE ONLINE	 Discussion
YW41	Fanita Tyrell **Meets July 11, 2022 - July 29, 2022** MTuWThF 1:00pm - 3:00pm Class time/details on ELMs *Restricted to students in Terp Young Scholars.*	Seats (Total: 13) ONLINE ONLINE	 Discussion

PSYC234 **Living the Good Life: The Psychology of Happiness**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Credit only granted for: PSYC234 or PSYC289D. Formerly: PSYC289D.

What are the secrets to living a happy life? Can happiness be found within the context of war, a depressed economy, violence and other major stressors? Are some people born happier than others? This course will teach you the scientific process that psychologists use to study happiness (and related emotional variables) and give you the opportunity to practice applying that process in a number of ways. You will learn how we (a) gather and critically evaluate research findings in the existing literature, (b) integrate those findings into coherent and testable theories, (c) design and conduct valid scientific research that tests those theories and extends our knowledge, and (d) effectively communicate our theories and findings to a wide range of audiences. The result of the process is a more accurate and objective understanding of happiness, and that is what prepares you to apply your scientific understanding to explain and influence a wide range of outcomes.

WB11	Beth Sperber Richie **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs Tu 10:00am - 12:00pm	Seats (Total: 30) ONLINE ONLINE	 Discussion

PSYC237 **Psychology of Evil**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSSP, SCIS

Credit only granted for: PSYC237 or PSYC289E. Formerly: PSYC289E.

Why is there evil in the world? Are some born evil, or do social, environmental and cultural forces create evil? What makes otherwise good people do evil things? The scientific study of evil epitomizes the fundamental challenge that psychology faces in dissecting the role of biology (nature) and the social context (nurture).

Click here for more information about the course.

WB11	Scott Roberts	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
WB21	Scott Roberts	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

PSYC300 **Research Methods in Psychology Laboratory**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: PSYC200. Restriction: Must be in Psychology program.

A general introduction and overview to the fundamental theoretical, conceptual, and practical issues in psychological research in both the laboratory and the field.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB21	Tracy Tomlinson	Seats (Total: 62)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	F 9:00am - 12:20pm	ONLINE

PSYC302 **Fundamentals of Learning and Behavior**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100, BSCI170, and BSCI171. Restriction: Restricted to psychology majors during the registration period; all other majors will be placed on a hold file.

Overview of the fundamental types of learning that occur without formal instruction. The course covers fundamentals of classical and instrumental conditioning as studied in a variety of species in addition to more modern theories of learning. We will then explore how these principles influence diverse processes such as memory, attention, extinction, categorization, motivation, and in some cases, how they are implemented in the brain and disrupted in disease.

WB21	Amanda Chicoli	Seats (Total: 20)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

PSYC332 **Psychology of Human Sexuality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

A survey of historical and contemporary psychological views on a wide variety of sexual behaviors; theory and research bearing on the relationship between life span psychological development, psychological functioning, interpersonal processes and sexual behaviors; political and social issues involved in current sexual norms and practices.

Contact department for information to register for this course.

PSYC334 **Psychology of Interpersonal Relationships**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

Research, theory and their practical applications pertaining to the development, maintenance and dissolution of human relationships. Processes critical to successful relating (e.g., communication, bargaining, conflict resolution), and issues associated with troubled dyadic relations with equal partners (e.g., jealousy, spouse abuse, divorce).

WB51	Maria Wydra	Seats (Total: 35)
	Meets June 21, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

PSYC338G **Special Topics in Study Abroad III; The Social Brain: Neuropsychology of Social Behaviors**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

PSYC338P **Special Topics in Study Abroad III; Positive Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

PSYC344 **Health Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; or permission of instructor. Restriction: Must be in the Psychology program; or must be in a major within the School of Public Health; or permission of instructor. Credit only granted for: PSYC489U or PSYC344. Formerly: PSYC489U.

An examination of how psychological, biological, and social factors impact physical health and well-being. Students will use the biopsychosocial model to analyze topics including stress, health disparities, pain, addiction, disease states (e.g., cardiovascular disease, diabetes, cancer), and primary prevention.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB21	Rachel VanDaalen	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

PSYC346 **Death, Dying and Grieving: What Future Healthcare Professionals Need to Know**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: PSYC100.

What do future healthcare professionals need to know about death dying and grieving? Theories and research related to death, dying and grieving, interventions with the dying and grieving, and communication about end-of-life issues in healthcare settings will be examined. Topics include trajectories of common illnesses, palliative and hospice care, ethical and multicultural issues, suicide, models of grieving, post-traumatic growth, and self-reflection regarding values, biases, and beliefs regarding death. This class will prepare students for careers as psychologists, physicians, nurses, or social workers as they will obtain foundational knowledge, engage in self-reflection, and practice communication skills that can be used with future clients or patients who are dying or grieving the dying/death of a loved one.

WB11	Karen O'Brien	Seats (Total: 30)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	

PSYC353 **Adult Psychopathology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100. Restriction: Must be in Psychology program.

The nature, diagnosis, etiology, and treatment of mental disorders.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB11	Jack Blanchard	Seats (Total: 50)	
	Meets May 31, 2022 - July 8, 2022		
	Class time/details on ELMs	ONLINE	

PSYC354 **Multicultural Psychology in the U.S.**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHS

Prerequisite: PSYC100.

What are the psychological implications of racism, sexism, homophobia and other structures of inequality in the United States? How do socio-cultural privilege and oppression influence individual and group thoughts, feelings, and behaviors? This course will take a current events focus to understanding multicultural and social justice issues in psychology with an emphasis on self-reflection, mental health, cross-cultural communication, and strategies for social change.

WB41	Stephanie Yee	Seats (Total: 10)	
	Meets July 11, 2022 - July 29, 2022		
	MTuWThF 10:00am - 12:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
YW41	Stephanie Yee	Seats (Total: 8)	
	Meets July 11, 2022 - July 29, 2022		
	MTuWThF 10:00am - 12:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Discussion
	Restricted to students in Terp Young Scholars.		

PSYC355 **Developmental Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

Survey of research and theory of psychological development from conception through childhood, stressing physiological, conceptual and behavioral changes, and the social and biological context in which individuals develop.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB11	Tracy Riggins	Seats (Total: 51)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

PSYC389 **Experiential Learning**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Internship in psychology-related fields.

WB11	Steven Young	Seats (Total: 25)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

PSYC404 **Introduction to Behavioral Pharmacology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC202 or NEUR200. Restriction: Must be in Psychology program.

Theoretical viewpoints on the interaction of drugs and behavior. Basic principles of pharmacology, the effects of drugs on various behaviors, experimental analysis of drug dependence and abuse, and neuropharmacology and behavior.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB11	Ana Navarro Cebrian	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

PSYC433 **Basic Helping Skills: Research and Practice**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits; and must not have completed or be concurrently enrolled in EDCP 310. Credit only granted for: EDCP210, EDCP310, or PSYC433.

Theories and research regarding effective helping relationships, with a focus on applications to counseling and psychotherapy. Students will practice helping skills with each other and will conduct research projects evaluating their helping skills. Students should be willing to talk about personal issues in class. Attendance in labs is mandatory and contributes to the course grade; thus, students should only enroll in a lab section that they will be able to attend consistently.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB21	Stephanie Yee	Seats (Total: 28)	
	Meets July 11, 2022 - August 19, 2022		
	MTuWTh 1:00pm - 2:45pm	ONLINE	
	Class time/details on ELMs	ONLINE	Lab

PSYC436 **Introduction to Clinical Psychology: From Science to Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300.

Critical analysis of clinical psychology, with particular emphasis on current developments and trends.

Contact department for information to register for this course.

PSYC437 **The Assessment and Treatment of Addictive Behaviors**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; and 9 credits in PSYC courses.

Explores the current research in assessment and treatment of addictive behaviors. Topics may include addictions in the areas of alcohol, drugs, nicotine, gambling, and eating.

For the summer, restriction is not in effect. Students of all majors who have prerequisites are eligible to register and take this course.

WB21	Christopher Seitz-Brown	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

PSYC478 **Independent Study in Psychology**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

PSYC479 **Special Research Problems in Psychology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

PSYC489W **Advanced Special Topics in Psychology; Psychology of Men and Masculinity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Treatment of a specialized topic in psychology.

What is masculinity, and how does one earn their manhood? What does masculinity look like across cultural differences? How do psychologists and mental health professionals understand and address mental health concerns among men? This course will address psychological theories related to gender development, diversity among men and their experiences, the connection between masculinity and violence, positive masculinity, and mental health concerns specific to men. We will investigate masculinity from an intersectional perspective as well as review and critically analyze research related to men, masculinity, and mental health. Credit only granted for: PSYC489W or HONR249G.

WB11	Monica Kearney	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

PSYC610 **Historical Viewpoints and Current Theories in Psychology**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Credit only granted for: PSYC610 or PSYC688. Formerly: PSYC688.

Origins of psychology in philosophy and the sciences; the development of psychology as a science in the nineteenth and twentieth centuries. A review of current theoretical perspectives and research in relation to the enduring issues in psychology. The role of culture, science, and technology in the development of psychological ideas.

WB11	Kelly Lee	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	TuTh 9:00am - 12:50pm	ONLINE

PSYC629A **Clinical Laboratory; Foundations of Clinical Assessment and Intervention**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

0101	Mary Byrne	Seats (Total: 20)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

PSYC629B **Clinical Laboratory; Assessment Practicum**

Credits: 1-3 Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

WB11	Michael Guilbault	Seats (Total: 10)
	Meets May 31, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

PSYC629E **Clinical Laboratory; Diversity Training Therapy Practicum**

Credits: 1-3 Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

0101	Christopher Seitz-Brown	Seats (Total: 10)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

PSYC629F **Clinical Laboratory; Fundamentals of Supervision and Consultation**

Credits: 1-3 Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

0101	Mary Byrne	Seats (Total: 10)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

PSYC632 **Behavioral and Cognitive Behavioral Intervention for Children and Adolescents**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)). Formerly: PSYC789A.

Introduces students to the process of therapy with particular focus on behavioral and cognitive behavioral interventions in children and adolescents. Syllabus focuses on theory, research, client diversity, ethics and practical aspects of conducting therapy.

Restricted to students in Clinical Psychological Science Program.

Click here for more course information.

PCC1	Christina Danko	Seats (Total: 40)
	Meets May 31, 2022 - August 19, 2022	
	Th 6:00pm - 9:15pm	BPS 1140AB
	Must be in Clinical Psychological Science (MPS).	

PSYC638 **Externship in Professional Psychology**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Approved appointment as an extern in a mental health setting.

0101	Jonathan Mohr	Seats (Total: 10)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	
0102	Lea Dougherty	Seats (Total: 15)
	Meets May 13, 2022 - August 19, 2022	
	Contact instructor or department for details.	
I101	Jonathan Mohr	Seats (Total: 10)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

I201	Jonathan Mohr	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

PSYC639 **Internship in Professional Psychology**

Credits: 1 Grading Method: Sat-Fail

This seminar combines involvement with a program approved appointment as an intern in a mental setting with a supervisory review of the training experience.

Contact department for information to register for this course.

PSYC650 **Culture and Diversity in Mental Health**

Credits: 3 Grading Method: Regular

Restriction: Must be enrolled in the Clinical Psychological Science MPS program.

Review literature regarding the role of culture and diversity in mental health and how culture and diversity are integrated into research and are related to mental health and mental health service utilization. Examine principles and concepts of multicultural and cross-cultural psychology to acquire an increased understanding of diverse underrepresented groups and topics to consider when involved with research and/or clinical work with individuals having diverse backgrounds (e.g., cultures, ethnicities, genders, sexual orientations, and socioeconomic status).

Restricted to students in Clinical Psychological Science Program.

Click here for more course information.

PCC1	Andrea Chisolm	Seats (Total: 40)
	Meets May 31, 2022 - August 19, 2022	
	Tu 6:00pm - 9:15pm	BPS 1140AB
	Must be in Clinical Psychological Science (MPS).	

PSYC652 **Analytical Thinking: Statistical Methods at Work**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Additional information: Students will be taught how to conduct analyses in R, SPSS, SAS, Stata, and excel; students are encouraged to practice analyses on at least two of these programs.

Personal and organizational growth begins with asking and answering great questions. Correspondingly, this course begins with demonstrations of how to translate business questions into research questions. Statistical methods used to answer business questions are taught first conceptually, then computationally using statistical software. This course emphasizes interpreting results, the regression model, and other issues salient to business research, such as handling large datasets. Students will be provided with a simulated dataset that they will use in learning how to frame and answer business questions using the techniques covered in this course. At the conclusion of this course, students will be required to provide an executive-level presentation on the business question, their findings, and resulting implications.

PCI1	Meg O'Neill	Seats (Total: 40)	
	Meets May 31, 2022 - August 19, 2022		
	M 5:00pm - 8:00pm Class time/details on ELMs	PHY 2122 ONLINE	
	Must be in the Industrial/Organizational Psychology (MPS). All other graduate students must request permission. Contact oes@umd.edu.		

PSYC655 **Talent Development**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

In this course, students will learn how to design and implement effective employee training programs as well as how to encourage informal learning in organizations. This course will review current theories in adult learning (e.g., ADDIE model, action learning, peer feedback/coaching), several popular assessment tools (e.g., MBTI), and best practices for evaluating training programs. Issues relevant to leadership identification and development, including succession planning, will also be covered. As part of this course, students will work in teams to design and deliver a brief training module and practice giving and receiving feedback. Additionally, students will complete, and facilitate a debriefing on, a 360-degree feedback assessment.

Restricted to students in Industrial/Organizational Psychology.

Click here for more course information.

PCI1	David Shar	Seats (Total: 40)	
	Meets May 31, 2022 - August 19, 2022		
	M 5:00pm - 8:00pm Class time/details on ELMs	PHY 2122 ONLINE	Discussion
	Must be in the Industrial/Organizational Psychology (MPS). All other graduate students must request permission. Contact oes@umd.edu.		

PSYC656 **Business Fundamentals and Legal Issues facing Organizations**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

This course provides an overview of the fundamentals of business, including both issues of finance and legal issues faced by organizations. Topics will include finance, accounting, and marketing. Students will learn core business concepts, about how each major business function enables organizations to run, and how to talk to and understand the leaders of organization. Additionally, this course will provide an overview of common legal challenges organizations face. In addition to introducing students to employment law, this course will review professional ethics standards for IO psychology. This course will use case study methodology to hone students' understanding of the ethical and legal issues faced in day-to-day organizational life.

Restricted to students in Industrial/Organizational Psychology.

Click here for more course information.

PCI1	Matthew Montei	Seats (Total: 40)	
	Meets May 31, 2022 - August 19, 2022		
	M 5:00pm - 8:00pm Class time/details on ELMs	BPS 1140B ONLINE	Discussion
	Must be in the Industrial/Organizational Psychology (MPS). All other graduate students must request permission. Contact oes@umd.edu.		

PSYC657 **Managing Strategic Organizational Change**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

In this course, students will learn to think about organizations as systems and will explore catalysts of organizational change. Issues of strategy, market pressure, competition, workforce planning, and stakeholder buy-in will be discussed. Finally, students will learn about methods for planning, leveraging, and managing organizational change. Case study methodology will be used to deepen learning on the challenges faced during organizational change and how to guide organizations through change, planned or not.

Restricted to students in Industrial/Organizational Psychology.

Click here for more course information.

PCI1	Nikita Arun	Seats (Total: 40)	
	Meets May 31, 2022 - August 19, 2022		
	M 5:00pm - 8:00pm Class time/details on ELMs	BPS 1140B ONLINE	Discussion
	Must be in the Industrial/Organizational Psychology (MPS). All other graduate students must request permission. Contact oes@umd.edu.		

PSYC789 **Special Research Problems**

Credits: 1-4 Grading Method: Regular, Audit, Sat-Fail

Contact department for information to register for this course.

PSYC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

PSYC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PSYC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

RDEV Real Estate Development Summer 2022

RDEV250 **People, Planet, and Profit: Building Sustainable Places**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Cross-listed with: ARCH271. Credit only granted for: ARCH271 or RDEV250.

An introduction to the four disciplines represented in the School: architecture and urban design, community planning, historic preservation, and real estate development, that work to create a more sustainable environment for the future to create a more sustainable environment for the future using our interpretation of the quadruple bottom line: socio-cultural, economic, environmental, and design sustainability. Students will be provided with an understanding of the fundamental scholarship and processes of each of these disciplines and examine the intersections between them. Additionally, they will learn by applying the approaches of the four disciplines through a series of field studies.

WB21	Wayne Curtis	Seats (Total: 30)	
	Meets July 11, 2022 - August 19, 2022		
	TuWThF 2:00pm - 3:40pm	ONLINE	
	Class time/details on ELMs	ONLINE	

RDEV688P **Selected Topics in Real Estate Development; Entrepreneurship for Real Estate Development**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Selected topics in real estate development.

0201	James Sanders	Seats (Total: 20)	
	Meets July 11, 2022 - August 19, 2022		
	MTh 6:30pm - 10:00pm	ASY 3217	

RDEV689N **Current Topics in Real Estate Development; Construction Methods and Materials: Introduction**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estate development: planning, finance, law, design, construction, or management.

Prerequisite: permission of department.

0101	Robert McClennan	Seats (Total: 15)	
	Meets May 31, 2022 - July 8, 2022		
	MTh 6:30pm - 10:15pm	TYD 0101	
	Class time/details on ELMs	ONLINE	Discussion

RDEV689Y **Current Topics in Real Estate Development; Guided Real Estate Development Project**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estate development: planning, finance, law, design, construction, or management.

Permission of the department required to register.

Contact department for information to register for this course.

RUSS Russian Summer 2022

RUSS386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Languages, Literatures, and Cultures department.

I101	Cynthia Martin **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I201	Cynthia Martin **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

RUSS398G **Selected Topics in Russian Language and Literature; Russian Grammar**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: RUSS 102 or higher. Course covers the basic grammatical categories of conjugations and declensions, including analysis of aspect, case usage. Students level will be assessed at the beginning of the course so that assignments may be individualized as appropriate.

WB11	Cynthia Martin **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 15) ONLINE

RUSS499 **Independent Study in Russian**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study under faculty supervision.

Contact department for information to register for this course.

SLAA Second Language Acquisition and Application Summer 2022

SLAA719 **Second Language Acquisition and Application Internship**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Internship at a site to be determined. Topics may include heritage language learning, immersion education, testing and assessment, translation and interpretation, and national language planning and policy.

I201	Steven Ross **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)

SLAA899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

I102	Nan Jiang **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 1)
I201	Steven Ross **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)
I202	Kira Gor **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)
I203	Nan Jiang **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 1)

SLLC School of Languages, Literatures and Cultures — Summer 2022

SLLC169B **Special Topics in Study Abroad I; Elementary Basque I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SLLC169C **Special Topics in Study Abroad I; Elementary Basque II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SLLC169D **Special Topics in Study Abroad I; Great Czech Writers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SLLC169L **Special Topics in Study Abroad I; Basque Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SLLC269C **Special Topics in Study Abroad II; Basque Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SLLC299A **Special Topics in World Cultures; Exploring Confucius' China**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topic to be announced when course is offered.

Contact department for information to register for this course.

SLLC299R **Special Topics in World Cultures; Elementary Italian I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Topic to be announced when course is offered.

Contact department for information to register for this course.

SLLC299Z **Special Topics in World Cultures; Spanish Civilization and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topic to be announced when course is offered.

Contact department for information to register for this course.

SLLC368A **Special Topics in Film Studies I; Disney without Disney: The Afterlives of Children's Media Icons**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Content varies. Exploration of topics in film studies beyond national traditions, for example through the lens of theory, genre, auteurship, aesthetic movements in cinema, and/or comparative perspectives.

Crosslisted with CINE319B. Credit only granted for CINE319B, FILM319B, or SLLC368A.

WB61	Paul Cote	Seats (Total: 25)
	Meets August 1, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

SLLC368B **Special Topics in Film Studies I; Forbidden Films: Global Perspectives on Cinema Censorship**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Content varies. Exploration of topics in film studies beyond national traditions, for example through the lens of theory, genre, auteurship, aesthetic movements in cinema, and/or comparative perspectives.

In this asynchronous course, we will examine some of the most important films censored in different nations and cultures throughout the history of cinema. These films, censored, challenged, or banned on political, social, sexual, religious grounds, and for violent contents, will provide fascinating material to consider the relationship between culture and politics, morality and ideology. Films may come from the United States, the Soviet Union, the United Kingdom, Italy, Canada, China, India, Thailand, Germany, and Belgium. Crosslisted with CINE329B. Credit only granted for CINE329B, FILM329B, or SLLC368B.

WB21	Jason Kuo	Seats (Total: 25)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

SLLC368K **Special Topics in Film Studies I; Disaster Cinema**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Content varies. Exploration of topics in film studies beyond national traditions, for example through the lens of theory, genre, auteurship, aesthetic movements in cinema, and/or comparative perspectives.

Crosslisted with CINE359C. Credit only granted for CINE359C, FILM359C, or SLLC368K.

WB41	Daniel Richter	Seats (Total: 25)
	Meets July 11, 2022 - July 29, 2022	
	Class time/details on ELMs	ONLINE

SLLC368V **Special Topics in Film Studies I; Voices of West African Filmmakers: From Independence to the Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Content varies. Exploration of topics in film studies beyond national traditions, for example through the lens of theory, genre, auteurship, aesthetic movements in cinema, and/or comparative perspectives.

Crosslisted with CINE329V. Credit only granted for CINE329V or SLLC368V.

WB31	Valerie Orlando	Seats (Total: 25)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE

SLLC369A **Special Topics in Study Abroad III; Alternative Culture, Literature, Music and Lifestyles**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SLLC369C **Special Topics in Study Abroad III; Czech Film**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SLLC468M **Special Topics in Film Studies II; Science Fiction Cinema: Masterworks**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploration of topics in film studies beyond national traditions, for example through the lens of theory, genre, auteurship, aesthetic movements in cinema, and/or comparative perspectives. Courses at the 400-level have higher expectations of independent work, including reading and written assignments.

Crosslisted with CINE459M. Credit only granted for CINE459M, FILM459M, or SLLC468M.

WB11	Jason Kuo	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

SOCY Sociology Summer 2022

SOCY100 **Introduction to Sociology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

The fundamental concepts and principles of sociology. Includes consideration of culture, patterns of social interaction, norms, values, social institutions, stratification, and social change.

WB31	Shilpa Reddy	Seats (Total: 30)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE
WB51	Chandra Reyna	Seats (Total: 30)
	Meets June 21, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
WB61	Mary DeStefano	Seats (Total: 35)
	Meets August 1, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

SOCY203 **Sociological Theory**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SOCY100.

Development of the science of sociology; historical backgrounds; recent theories of society. Required of all sociology majors.

WB11	Brian Connor	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	TuTh 12:00pm - 2:00pm	ONLINE
	Class time/details on ELMs	ONLINE

SOCY230 **Sociological Social Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Theoretical perspectives and their applications. Socialization through the life course, the self-concept, attitudes, emotion, attribution, interpersonal relations, group processes, deviance, and social change.

WB51	Simone Durham	Seats (Total: 30)
	Meets June 21, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

SOCY386 **Experiential Learning**

(Perm req)

Credits: 3-6 | Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Sociology department; and junior standing or higher.

Contact department for information to register for this course.

SOCY399 **Independent Study in Sociology**

(Perm req)

Credits: 1-6 | Grading Method: Regular, Pass-Fail, Audit

Integrated reading or research under the direction and supervision of a faculty member. A maximum of 6 credits may be earned by a student for the same field experience in SOCY386 and SOCY399 combined.

Contact department for information to register for this course.

SOCY432 **Social Movements**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

Movements that seek change in the social and political structure of society. Origins, tactics, organization, recruitment, and success. Case studies come from such movements as labor, civil rights, student, feminist, environmental, neighborhood, and gay rights.

WB21	Danielle Koonce	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

SOCY498R **Selected Topics in Sociology; The Sociology of Religion and Spirituality**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

WB11	Joey Brown	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

SOCY670 **Applied Research Methods and Technological Training Approaches**

Credits: 3 Grading Method: Regular

Restriction: Must be in one of the following programs: Public Safety Leadership and Administration (MPS); Leadership in Diverse Organizations (GC); Criminology and Criminal Justice (Master's); Criminology and Criminal Justice (Doctoral); Sociology (Master's); Sociology (Doctoral); or permission from BSOS-Sociology department.

Introduces students to the purpose, methodology, analysis, and ethics of social science research, especially in the areas of criminal justice and law enforcement. Students will engage in the research process from developing a research question, designing, and conducting a thorough research study, and collecting data for analysis and findings. Both qualitative and quantitative research models will be shared to facilitate students' learning around methodological inquiry and interpretation, including survey design, literature reviews, and report writing. Additionally, students will be exposed to contemporary models impacting law enforcement and public officials, such as algorithmic bias, facial recognition, and individual and community surveillance. At the end of the course, students will be expected to complete a research paper after submission of a research proposal to complete course requirements.

PLL1	Nicol Lee	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Public Safety Leadership and Administration or a graduate student in a Semester Academic Calendar program.	

SOCY699 **Special Social Problems**

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

SOCY799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

SOCY898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

SOCY899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

SPAN Spanish Summer 2022

SPAN103 **Intensive Elementary Spanish**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Spanish. Credit only granted for: SPAN102 or SPAN103.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

WB11	Maureen Wrightson	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	
WB12	Ligia Gonzalez	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	
WB21	Tatiana Chi Miranda	Seats (Total: 12)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN169W **Special Topics in Study Abroad I; Introduction to Spanish Lanuage I**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN169X **Special Topics in Study Abroad I; Elementary Spanish I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN169Y **Special Topics in Study Abroad I; Elementary Spanish II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN169Z **Special Topics in Study Abroad I; Introduction to Spanish Lanuage II**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN203 **Intensive Intermediate Spanish**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: SPAN103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Spanish.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

WB11	Gianinna Malatesta **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs *This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.*	Seats (Total: 12) ONLINE
WB12	Nelida Devesa-Gomez **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs *This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.*	Seats (Total: 12) ONLINE

WB21	Andrea Torres Armas	Seats (Total: 12)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	
WB22	Isabel Torrubia Gortari	Seats (Total: 12)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN204 **Spanish Grammar Review**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: SPAN203; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to fluent/native speakers of Spanish.

An in-depth study and analysis of selected grammatical topics in a contextualized framework.

WB11	Evelyn Canabal-Torres	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN207 **Reading and Writing in Spanish**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: Must have completed or be concurrently enrolled in SPAN204; or must have appropriate Foreign Language Placement Test (FLPT) score.

Selected readings with emphasis on reading comprehension and the development of reading strategies. Work in composition writing and a review of selected grammatical topics. Complements material of SPAN204.

WB11	Chila Hidalgo	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN269I **Special Topics in Study Abroad II; Intensive Intermediate Spanish**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN269P **Special Topics in Study Abroad II; Spanish Oral Techniques**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN301 **Advanced Grammar and Composition I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in SPAN207.

Practice of complex grammatical structures through reading and writing of compositions and essays. Specific lexical, syntactic, rhetorical, and stylistic devices will be highlighted.

WB11	Daniela Hernandez	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	
WB21	Juan Diaz	Seats (Total: 12)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN302 **Advanced Grammar and Composition II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301.

Practice in and writing of different types of compositions and essays, including narrations, descriptions, and persuasive writing. Review of problematic syntactical structures.

Contact department for information to register for this course.

SPAN303 **Approaches to Cultural Materials in the Hispanic World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: SPAN301. Recommended: May elect to take SPAN311 and/or SPAN316 in same semester as SPAN303.

Development of proficiency in critical thought through the reading, viewing, and analytical discussion of major genres and styles of cultural materials selected from Spanish-speaking world. Taught in Spanish.

WB11	Jackson Monzon	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN311 **Advanced Communication I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301; and must have completed or be concurrently enrolled in SPAN303. Restriction: Must not be a native/fluent speaker of Spanish.

Further development of listening, speaking, and writing skills in Spanish. Opportunity to develop oral and written fluency, improve pronunciation and increase vocabulary. Individual and/or group oral presentations. Taught in Spanish.

WB21	Daniela Hernandez	Seats (Total: 12)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN312 **Advanced Conversation II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN311. Restriction: Must not be a native/fluent speaker of Spanish.

Continued mastery of listening and speaking skills in Spanish. Opportunity to develop oral fluency, improve pronunciation, and increase vocabulary. Emphasis on colloquial and technical language as well as development of linguistic accuracy. Individual and/or group oral presentation.

Contact department for information to register for this course.

SPAN333 **Spanish Culture, Civilization and Literature III: Modern Times**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Spain from the late 17th century through the present day, exploring the production of literary texts in their socio-historical, political, religious and cultural contexts and development. Taught in Spanish.

Contact department for information to register for this course.

SPAN362 **Latin American Literatures and Cultures II: From Independence to Nation Formation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Latin America from the 18th Century to approximately 1900, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.

Contact department for information to register for this course.

SPAN363 **Latin American Literatures and Cultures III: From Modernism to Neo-Liberalism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Latin America from the late 19th through the early 21st centuries, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.

WB11	Sofia Maurette	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN369C **Special Topics in Study Abroad III; Spanish Culture and History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN369O **Special Topics in Study Abroad III; Spanish Conversation and Oral Skills**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN369P **Special Topics in Study Abroad III; Spanish Oral Techniques**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN370 **Spanish for Business I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN303; and (SPAN311 or SPAN316). Credit only granted for: SPAN315 or SPAN370. Formerly: SPAN315.

Business Spanish terminology, vocabulary and practices. Emphasis on everyday spoken and written Spanish. Readings and discussions of Spanish commercial topics. May include exposure to Spanish commercial topics. May include exposure to Spanish business environments. Taught in Spanish.

WB21	Juan Diaz	Seats (Total: 12)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN399 **Independent Study in Spanish**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Specific readings in literature or a translation project under the supervision of a faculty member of the department.

Contact department for information to register for this course.

SPAN401 **Advanced Composition I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN302; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN402 **Advanced Composition II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN401; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN408J **Special Topics in Iberian and Latin American Studies; Contemporary Mexican Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in (a) the literature and film of Spain, Spanish-speaking Latin America, and U.S. Latina/o communities; (b) Spanish linguistics; and (c) Spanish, Latin American, and U.S. Latino cultural studies. Each topic will be announced when the course is offered.

Contact department for information to register for this course.

SPAN408X **Special Topics in Iberian and Latin American Studies; Spain: Salamanca and Barcelona**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in (a) the literature and film of Spain, Spanish-speaking Latin America, and U.S. Latina/o communities; (b) Spanish linguistics; and (c) Spanish, Latin American, and U.S. Latino cultural studies. Each topic will be announced when the course is offered.

Contact department for information to register for this course.

SPAN408Y **Special Topics in Iberian and Latin American Studies; Contemporary Spanish Short Story**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in (a) the literature and film of Spain, Spanish-speaking Latin America, and U.S. Latina/o communities; (b) Spanish linguistics; and (c) Spanish, Latin American, and U.S. Latino cultural studies. Each topic will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409B **Great Themes of the Hispanic Literatures; 20th Century and Contemporary Latin American Short Story**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409L **Great Themes of the Hispanic Literatures; 20th Century and Contemporary Latin American Short Story**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN448T **Special Topics in Latin American Civilization; Latin American and Caribbean Theater and Performance**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Intensive independent study of a selected topic related to Latin American civilization.

Prerequisites: SPAN331, SPAN332, SPAN333, SPAN361, SPAN362, SPAN363, or permission of instructor This course will introduce students to important Latin American and Caribbean theatrical texts and performance art and focus on the unique ways performance communicates cultural, historical, social, and political contexts at different times and countries. We will pay special attention to themes of revolution, violence, human rights, gender and sexuality, and history to examine the ways that theater and performance solidify and challenge structures of power and build community.

WB11	Chris Lewis	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN464 **Contemporary Spanish Poetry**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Spanish poetry from the generation of 1927 to the present.

Contact department for information to register for this course.

SPAN474 **Central American Literatures, Cultures, and Histories**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

An overview of Central American history and cultural production, focusing primarily but not exclusively on literary texts.

Contact department for information to register for this course.

SPAN699 **Independent Study in Spanish**

Credits: 1-3

Grading Method: Regular, Audit

This course is designed to provide graduate students an opportunity to pursue independent study under the supervision of a member of the department.

Contact department for information to register for this course.

SPAN799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

SPAN899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

SPHL Public Health Summer 2022

SPHL100 **Foundations of Public Health**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: SPHL100, PHSC300 or SPHL600.

An overview of the goals, functions, and methods of public health. After an introduction to the core concepts and tools used in public health research and practice, applications of these methodologies are considered in the context of current controversies/problems in public health. Students work together to develop strategies for prevention and control that take into consideration different points of view, outside research, and impacts on individuals and communities.

WB11	Sylvette La Touche-Howard **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB12	Sylvette La Touche-Howard **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 40) ONLINE
WB13	Sylvette La Touche-Howard **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs	Seats (Total: 40) ONLINE

SPHL602 **Foundations of Epidemiology and Biostatistics**

Credits: 4 Grading Method: Regular, Audit

Recommended: Recommend SPHL603 as a co-requisite course. Restriction: Must be a graduate student within the School of Public Health. Credit only granted for: SPHL602 or EPIB610 and EPIB650.

An introduction to conceptual and practical tools from epidemiology and biostatistics that are necessary for the study of public health problems. Students learn epidemiologic concepts and methods, and basic statistical concepts and procedures used in public health research through applications, hands-on experience, and interpretations of statistical findings.

PLB1	Jamie Trevitt	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact oes@umd.edu.	
PLH1	Jamie Trevitt	Seats (Total: 1)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Public Health Practice and Policy, Online.	
WB11	Jamie Trevitt	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	This section is not restricted during the summer. Any graduate student may enroll. Incoming in-person MPH/MHA students admitted for the Fall 2021 should register only for the fall semester offering.	

SPHL603 **Public Health Data Laboratory**

Credits: 1 Grading Method: Regular, Audit, Sat-Fail

Corequisite: SPHL602. Restriction: Must be a graduate student within the School of Public Health.

An introduction to the statistical software necessary to implement the epidemiology and biostatistics concepts covered in the course EPIB 602, Foundations of Epidemiology and Biostatistics through hands-on exercises.

PLB1	Jamie Trevitt	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
	Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact oes@umd.edu.	

PLH1	Jamie Trevitt **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs *Must be in Public Health Practice and Policy, Online.*	Seats (Total: 1) ONLINE
WB11	Jamie Trevitt **Meets May 31, 2022 - July 8, 2022** Class time/details on ELMs *This section is not restricted during the summer. Any graduate student may enroll. Incoming in-person MPH/MHA students admitted for the Fall 2021 should register only for the fall semester offering.*	Seats (Total: 25) ONLINE

SPHL620 **Leadership, Teams, and Coalitions: Policy to Advocacy**

Credits: 2 Grading Method: Regular, Audit, Sat-Fail

Prerequisite: Must have completed SPHL610. Restriction: Must be a graduate student in the School of Public Health.

Students learn team building, leadership, and advocacy skills through the development and presentation of a policy brief on an urgent public health issue. The class will use a combination of brief lectures, discussions, and planned activities on how to develop a policy briefing. Students will have an inter-professional experience during which they will discuss possible approaches to developing policies on their public health issues while practicing team building skills. Class will culminate with presentation of policy briefs through a persuasive advocacy speech.

Students learn team building, leadership, and advocacy skills through the development and presentation of a policy brief on an urgent public health issue. The class will use a combination of brief lectures, discussions, and planned activities on how to develop a policy briefing. Students will have an inter-professional experience during which they will discuss possible approaches to developing policies on their public health issues while practicing team building skills. Class will culminate with presentation of policy briefs through a persuasive advocacy speech.

Contact department for information to register for this course.

STAT Statistics and Probability Summer 2022

STAT100 **Elementary Statistics and Probability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: FSAR, FSMA

Prerequisite: MATH110, MATH112, MATH113, or MATH115; or permission of CMNS-Mathematics department; or must have math eligibility of STAT100 or higher and math eligibility is based on the Math Placement Exam or the successful completion of Math 003 with appropriate eligibility. Restriction: Must not have completed MATH111; or must not have completed any MATH or STAT course with a prerequisite of MATH141. Credit only granted for: STAT100, MATH107 or MATH111.

Simplest tests of statistical hypotheses; applications to before-and-after and matched pair studies. Events, probability, combinations, independence. Binomial probabilities, confidence limits. Random variables, expected values, median, variance. Tests based on ranks. Law of large numbers, normal approximation. Estimates of mean and variance.

WB11	Ran Li **Meets May 31, 2022 - July 8, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 35) ONLINE
WB12	Amandeep Chanda **Meets May 31, 2022 - July 8, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 35) ONLINE
WB21	Ishfaaq Mohammed Imtiyas **Meets July 11, 2022 - August 19, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 40) ONLINE

STAT400 **Applied Probability and Statistics I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141); or students who have taken courses with comparable content may contact the department. Credit only granted for: BMGT231, ENEE324, or STAT400. Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Random variables, standard distributions, moments, law of large numbers and central limit theorem. Sampling methods, estimation of parameters, testing of hypotheses.

WB11	Mestiyage Gunatilleka **Meets May 31, 2022 - July 8, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 40) ONLINE
WB13	Timothy Pilachowski **Meets May 31, 2022 - July 8, 2022** MTuWThF 11:00am - 12:20pm	Seats (Total: 40) ONLINE

WB21	Paul Smith	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	MTuWThF 9:30am - 10:50am	ONLINE

STAT401 **Applied Probability and Statistics II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (STAT400, STAT410). Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Point estimation - unbiased and consistent estimators. Interval estimation. Minimum variance and maximum likelihood estimators. Testing of hypotheses. Regression, correlation and analysis of variance. Sampling distributions. Elements of non-parametric methods.

WB21	Mestiyage Gunatilleka	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	MTuWThF 9:30am - 10:50am	ONLINE

STAT410 **Introduction to Probability Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241). Cross-listed with SURV410. Credit only granted for: STAT410 or SURV410.

Probability and its properties. Random variables and distribution functions in one and several dimensions. Moments. Characteristic functions. Limit theorems.

WB11	Jonathan Fernandes	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	MTuWThF 11:00am - 12:20pm	ONLINE

STAT430 **Introduction to Statistical Computing with SAS**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (STAT400, STAT410); and must have completed or be concurrently enrolled in STAT401 or STAT420; students who do not meet the STAT401 or STAT420 requirement but who have taken a statistics course may contact the math department to confirm eligibility.

Descriptive and inferential statistics. SAS software: numerical and graphical data summaries; merging, sorting and splitting data sets. Least squares, regression, graphics and informal diagnostics, interpreting results. Categorical data, lifetime data, time series. Applications to engineering, life science, business and social science.

WB11	Susan Mazzullo **Meets May 31, 2022 - July 8, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 25) ONLINE
WB21	Timothy Pilachowski **Meets July 11, 2022 - August 19, 2022** MTuWThF 9:30am - 10:50am	Seats (Total: 20) ONLINE

STAT470 **Actuarial Mathematics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241). Recommended: STAT400.

Major mathematical ideas involved in calculation of life insurance premiums, including compound interest and present valuation of future income streams; probability distribution and expected values derived from life tables; the interpolation of probability distributions from values estimated at one-year multiples; the 'Law of Large Numbers' describing the regular probabilistic behavior of large populations of independent individuals; and the detailed calculation of expected present values arising in insurance problems.

WB11	Susan Mazzullo **Meets May 31, 2022 - July 8, 2022** MTuWThF 8:00am - 9:20am	Seats (Total: 20) ONLINE

STAT498A **Selected Topics in Statistics**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the MATH/STAT major committee. Students register for reading in statistics under this number.

Contact department for information to register for this course.

STAT698A **Selected Topics in Probability**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Contact department for information to register for this course.

STAT798A **Selected Topics in Statistics**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Contact department for information to register for this course.

STAT799 **Master's Thesis Research**

(Perm req)

Credits: 1-6

Grading Method: Sat-Fail

Contact department for information to register for this course.

STAT898 **Pre-Candidacy Research**

Credits: 1-8

Grading Method: Regular

Contact department for information to register for this course.

STAT899 **Doctoral Dissertation Research**

Credits: 1-8

Grading Method: Sat-Fail

Contact department for information to register for this course.

SURV Survey Methodology Summer 2022

SURV612 **Ethical Considerations for Data Science Research**

Credits: 1

Grading Method: Regular, Audit

Credit only granted for: SURV699A or SURV612. Formerly: SURV699A.

The goal of research ethics is to protect human subjects from harm when they participate in a study. In the digital age, however, what constitutes "participation" has become blurry, especially with the rise of social media platforms and other online apps and services. Furthermore, new applications of big data raise important questions about how to protect consumers from harms, and what kinds of notice and consent should be obtained. This course provides an introduction and overview of research ethics in the 21st century and evaluates the many challenges to conducting ethical research.

PLS1	Jessica Vitak	Seats (Total: 15)
	Meets July 18, 2022 - August 8, 2022	
	M 12:00pm - 1:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV624 **Privacy Law**

Credits: 1 Grading Method: Regular, Audit

Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

To acquaint the students with the origins and basic principles of privacy law mainly in Europe. Furthermore, it will contrast the European privacy foundations with the U.S. approach. At the core of this course stands the new European General Data Protection Regulation (GDPR) and its applicability to specific cases and basic principles. Moreover, the course will cover current challenges to the existing privacy paradigms by big data and big data analytics.

PLS1	Thomas Fetzer	Seats (Total: 15)
	Meets July 7, 2022 - July 28, 2022	
	Th 1:00pm - 2:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV656 **Web Survey Methodology**

Credits: 2 Grading Method: Regular, Audit

Prerequisite: Must have completed SURV400; or must have completed SURV623; or permission of instructor. And permission of BSOS-Joint Program in Survey Methodology department.

Fundamental concepts of web surveys and web survey design. The course is organized in 3 main sections which follow the way a proper web survey is organized: prefielding, fielding and post fielding.

PLS1	Jernej Berzelak	Seats (Total: 15)
	Meets June 7, 2022 - July 26, 2022	
	Tu 1:00pm - 2:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV667 **Introduction to Record Linkage with Big Data Applications**

Credits: 2 Grading Method: Regular, Audit

Prerequisite: Basic statistical concepts; and intermediate knowledge of R. Recommended: Familiarity with regular expressions, the R packages ggplot2 and tidyverse. Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

Methods to combine data on given entities (people, households, firms etc.) that are stored in different data sources. By showing the strengths of these methods and by showing how each of them are performed in practice using R, the course will demonstrate the various benefits of record linkage. Participants will also learn about potential challenges that record linkage projects may face.

PLS1	Joseph Sakshaug, Christian Borgs, Stefan Bender, Antoni Manfred	Seats (Total: 15)
	Meets June 1, 2022 - July 20, 2022	
	W 1:00pm - 2:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV673 **Introduction to Python and SQL**

Credits: 1 Grading Method: Regular, Audit

Recommended: Background knowledge in programming in Python and SQL structures.

Basics of Python and SQL for data analysis.Students will explore real publicly-available datasets, using the data analysis toolsin Python to create summaries and generate visualizations. Students will learn thebasics of database management and organization, as well as learn how to code inSQL and work with PostgreSQL databases. By the end of the class, students shouldunderstand how to read in data from CSV files or from the internet and becomfortable using either SQL or Python to aggregate, summarize, describe, andvisualize these datasets.

PLS1	Diego Fregolent Mendes de Oliveira	Seats (Total: 15)
	Meets June 9, 2022 - June 30, 2022	
	Th 11:00am - 12:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV699 **Special Topics in Survey Methodology**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

0101	Frauke Kreuter	Seats (Total: 10)
	Meets May 31, 2022 - August 19, 2022	
	Contact instructor or department for details.	

SURV725 **Item Nonresponse and Imputation**

Credits: 1

Grading Method: Regular, Audit, Sat-Fail

Prerequisite: Be comfortable with generalized linear models and basic probability theory through coursework or work experience; and familiarity with the statistical software R. Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

Missing data are a common problem which can lead to biased results if the missingness is not taken into account at the analysis stage. Imputation is often suggested as a strategy to deal with item nonresponse allowing the analyst to use standard complete data methods after the imputation. However, several misconceptions about the aims and goals of imputation make some users skeptical about the approach. In this course we will illustrate why thinking about the missing data is important and clarify which goals a useful imputation method should try to achieve.

PLS1	Joerg Drechsler	Seats (Total: 15)
	Meets June 20, 2022 - July 11, 2022	
	M 12:00pm - 1:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV736 **Introduction to Web Scraping with R**

Credits: 1

Grading Method: Regular, Audit

Prerequisite: Students are expected to be familiar with the statistical software R. Recommended: Knowledge about the tidyverse packages, in particular, dplyr, plyr, magrittr, and stringr. Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

Provides a condensed overview of web technologies and techniques to collect data from the web in an automated way. To this end, students will use the statistical software R. The course introduces fundamental parts of web architecture and data transmission on the web. Furthermore, students will learn how to scrape content from static and dynamic web pages and connect to APIs from popular web services. Finally, practical and ethical issues of web data collection are discussed.

PLS1	Sascha Gobel	Seats (Total: 15)
	Meets July 15, 2022 - August 5, 2022	
	F 11:00am - 12:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

THET Theatre Summer 2022

THET110 **Introduction to the Theatre**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU

In the age of pop music and blockbuster films, of memes and viral videos, we often forget that theatre was one of the original forms of popular entertainment. We will focus on theatre practitioners including actors, directors, designers and backstage personnel to understand how theatre is produced. We will also consider popular entertainment in Europe and America, with a particular focus on musical theatre and Broadway to explore how theatre communicates, resonates, and remains relevant to all audiences.

WB21	Jonelle Walker	Seats (Total: 13)
	Meets July 11, 2022 - August 19, 2022	
	MTuW 10:00am - 12:15pm	ONLINE

THET251 **Broadway Mashup: Remixing America Through Musical Theater**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSHU, DVUP, SCIS

Interrogate musical theater's political history, investigating how this uniquely American genre uses narrative, song, and dance to weave critical differences across race, ethnicity, immigration status, religion, gender, sexuality, and ability into our national fabric.

WB11	Amber Daniels	Seats (Total: 18)
	Meets May 31, 2022 - July 8, 2022	
	Tu 11:00am - 12:15pm	ONLINE
	Class time/details on ELMs	ONLINE

THET269B **Special Topics in Study Abroad II; The Meaning of Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

THET269M **Special Topics in Study Abroad II; Meaning of Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

THET285 **The Art of Communication and Presentation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, or THET285.

An introduction to the fundamental practice and theory of public speaking and oral communication using theatrical techniques of both performance and the craft of storytelling.

WB11	Tara Demmy	Seats (Total: 15)
	Meets May 31, 2022 - July 8, 2022	
	MTuWTh 12:00pm - 1:50pm	ONLINE
WB20	Jonelle Walker	Seats (Total: 15)
	Meets July 11, 2022 - August 19, 2022	
	MTuW 1:00pm - 3:15pm	ONLINE

THET328C **Special Topics in Intermediate Theatre and Performance; Foundations of Screen Acting**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.

This introductory course offers a step by step process for the performer to dive into the basics of screen acting. Adjusting the actors work from stage to film is emphasized. Technique also includes awareness of eye-line, pacing, and camera angle. Through self-taped/ filmed monologue and scene work, students will learn critical tools for performance success in this new virtual medium. Access to a computer and smartphone (or other basic video recording device) needed.

WB51	Lisa Nathans	Seats (Total: 12)
	Meets June 21, 2022 - July 8, 2022	
	MTuWThF 10:00am - 1:00pm	ONLINE

THET328R **Special Topics in Intermediate Theatre and Performance; Voice for Voice-Overs**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.

Learn how to use your voice to make money at home and on the road! This course introduces you to various genres of voice-over acting, including radio/television commercials, audio-book narration, and animation for video games/film/TV. Curriculum focuses on voice-over technique, but touches on the business of the voice-over business, specifically helping you set up your own 'at-home' voice-over recording studio on a budget. Access to a computer and smartphone (or other basic audio recording device) needed.

WB31	Lisa Nathans	Seats (Total: 12)
	Meets May 31, 2022 - June 17, 2022	
	MTuWThF 10:00am - 1:00pm	ONLINE

THET390 **History of Theatre I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Prerequisite: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

The history of Western theatre from its origins in classical antiquity through the mid-seventeenth century with emphasis on plays and playwrights, architecture and decor, acting and costuming, and significant personalities. Includes explorations of interrelationships between Western theatre and the theatre of other cultures.

WB11	Kelley Holley	Seats (Total: 12)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE

THET391 **Theatre History II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

The history of Western theatre from the mid seventeenth century to the early twentieth century, with emphasis on plays and playwrights, architecture and decor, acting and costuming, and significant personalities. Includes explorations of interrelationships between Western theatre and the theatre of other cultures.

WB21	Jonelle Walker	Seats (Total: 15)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

THET428E **Special Topics in Advanced Theatre and Performance; Literature, Art and Architecture in London**

Credits: 3 Grading Method: Regular

This course is offered as part of the School of Theatre, Dance, and Performance Studies' Artist in Residence program. Topics covered may include: Intercultural Theatre; Performance Art; Puppetry; Solo Performance; or Theatrical Design.

Cross-listed with ENGL409M. Credit only granted for ENGL409M or THET428E. This course is an in-depth look at the best of British Culture. It has six focal points: History, Literature, and Drama as well as Art History, Archaeology, and Architecture. Lectures and discussions are conducted via Zoom as the class makes its way around London through time and space, looking at historic and archaeological sites, buildings, galleries, museums, and backstage at several theatres and rehearsal spaces. There are also guest lectures by friends working in such fields as theatre, archaeology, architecture, geology, historical biology, and local history. The class will also watch the streaming version of London plays. The archaeological BBC show, TIME TEAM, will be used to investigate sites associated with London in various times. Some guest lectures might take place outside of normal synchronous class hours. Students are expected to write several short papers on various topics.

Contact department for information to register for this course.

THET499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

Contact department for information to register for this course.

THET789 **Master's Practicum**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Participation in creative and artistic activities with professional level theatrical organizations.

Contact department for information to register for this course.

THET799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

THET899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

TLPL Teaching and Learning, Policy and Leadership — Summer 2022

TLPL288K **Special Problems in Education; Reinventing Childhood: Unschooling in the Digital Age**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership. Available only to freshmen and sophomore students who have definite plans for individual study of approved problems relative to their preparation for teaching.

WB21	Kellie Rolstad	Seats (Total: 18)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

TLPL413 **Teaching and Learning Middle School Mathematics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI457 or TLPL413. Formerly: EDCI457.

Methods of teaching and assessing the middle school mathematics curriculum. Understanding the conceptual difficulties students have in moving from whole numbers to rational numbers, additive thinking to multiplicative thinking, and arithmetic to algebra. Lesson planning and selection of technology and other materials are applied in the context of supervised tutoring of students having difficulty in middle school mathematics. Lab and field experience required. Supervised tutoring takes place on site at a local middle school therefore TLPL413 students will be expected to travel to a local middle school for 8-10 of the class meetings.

Contact department for information to register for this course.

TLPL420 **Knowledge, Reasoning, and Learning in Science**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: TLPL420 or EDCI411. Formerly: EDCI411.

For prospective science teachers. Investigations of the nature of knowledge, reasoning, and learning in middle and secondary science. Readings from cognitive science and science education research; studies of student thinking in interview and classroom observations; analyses of curricula. Includes laboratory and field experiences.

Contact department for information to register for this course.

TLPL435 **Art Education Methods I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. And must be in Secondary Educ: Art program; or must be in Secondary Educ: Art pre-major program. Credit only granted for: EDCI405 or TLPL435. Formerly: EDCI405.

Methods I provides future art teachers with a knowledge base of the theories and best practices of effective pedagogy for: teaching methods and strategies, diversity, motivational techniques, classroom management, assessment and evaluation methods, and accommodating all students including those with special needs.

Contact department for information to register for this course.

TLPL451 **Teaching and Learning in Secondary Education: English**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Credit only granted for: EDCI416 or TLPL451. Formerly: EDCI416.

An introduction for prospective middle and secondary English teachers into the basic issues, concepts, orientations, and processes that shape the teaching of English for diverse students in schools. Candidates explore their own perspectives in relation to local and national trends and develop basic teaching understanding and skills through on-campus seminars, teaching laboratory experiences, and guided field experiences. Students should reserve one full day or two half days per week for field experience.

Contact department for information to register for this course.

TLPL453 **Life in Two Languages: Understanding Bilingual Communities and Individuals**

Credits: 3 Grading Method: Regular General Education: DSHS, DVUP

Overview of society and individual multilingualism. Topics include diglossia, language shift, codeswitching, bilingual first language acquisition, language attrition, dual language education policy and practice.

WB21	Jeff MacSwan	Seats (Total: 15)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

TLPL470 **Knowledge, Reasoning, and Learning in Secondary Social Studies**

Credits: 3 Grading Method: Regular

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department; and minimum cumulative GPA of 2.75. Credit only granted for: EDCI426 or TLPL470. Formerly: EDCI426.

An exploration of the nature of knowledge and reasoning in social studies disciplines as well as how students learn social studies. Assessment and investigation of students' conceptions and misconceptions as well as their disciplinary thinking. Implications for teaching and initial lesson design are explored through on-campus seminars as well as guided field experiences. Students should reserve a regular half-day per week for the field experience in local schools. This course is required for admission to the secondary social studies double major.

Contact department for information to register for this course.

TLPL498 **Special Problems in Education**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Exploration of current problems in teaching, learning, policy and leadership. Available only to students who have definite plans for study of approved problems.

Contact department for information to register for this course.

TLPL625 **Teaching Science in Elementary Schools**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI671 or TLPL625. Formerly: EDCI671.

Identification of problems in teaching science. Methods for improving the effectiveness of science education.

CITE Program Outreach Offering. Registration restricted to program participants.

Contact department for information to register for this course.

TLPL641 **Reading, Cognition, and Instruction: Reading in the Content Areas I**

Credits: 3 Grading Method: Regular

Credit only granted for: EDCI625 or TLPL641. Formerly: EDCI625.

Provides middle and secondary education students with an understanding of the interactive nature of the reading process, the use of research-based instructional strategies, the relationship between vocabulary development and student concept development, the design of strategic reading instruction, the methods for assessing content area literacy, and the ability to plan instruction and communicate with students, parents, and allied professionals.

Contact department for information to register for this course.

TLPL642 **Processes and Acquisition of Reading**

Credits: 3 Grading Method: Regular, Audit

Restriction: For Master's Certification Students only; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI626 or TLPL642. Formerly: EDCI626.

Addresses the ways in which social, cultural, cognitive and motivation factors influence the development of literacy. Focus is on reading acquisition and its underlying processes. Topics include language development in relation to reading development; the biological basis of this development; concepts in emergent literacy; models of reading acquisition and skilled reading; the effects of phonemic awareness and phonics on developing readers; factors in early childhood environments and in beginning literacy instruction that impact language and literacy achievement.

Contact department for information to register for this course.

TLPL646 **Linguistics in Education**

Credits: 3 Grading Method: Regular

Provides teachers and educational researchers with the theoretical and technical knowledge of linguistics necessary to engage effectively in their fields.

Contact department for information to register for this course.

TLPL647 **Diagnostic Reading Assessment and Instruction**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI662 or TLPL647. Formerly: EDCI662.

Survey course in diagnostic reading assessment and instruction for graduate students not majoring in reading.

Contact department for information to register for this course.

TLPL655 **Student Assessment in the Second Language Classroom**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI631 or TLPL655. Formerly: EDCI631.

Analysis of standardized and teacher-made FL/ESL tests; emphasis on principles of FL/ESL test construction. Field testing of commercial and teacher-made materials.

Contact department for information to register for this course.

TLPL660 **Foundations of Literacy and Biliteracy Development**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: TLPL665. Credit only granted for: EDCI636 or TLPL660. Formerly: EDCI636.

An overview of the research on literacy and biliteracy development for English learners. Specifically, the course explores the theoretical models and processes of teaching reading and writing, current literacy/biliteracy issues, assessment, and strategies for developing literacy and biliteracy skills for English learners.

Contact department for information to register for this course.

TLPL662 **Second Language Acquisition**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI732 or TLPL662. Formerly: EDCI732.

Major theoretical approaches to second language acquisition. For teaching English to speakers of other languages (TESOL).

Contact department for information to register for this course.

TLPL664 **Foundations of Second Language Education: Legal, Social and Historical Trends and Issues**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI630 or TLPL664. Formerly: EDCI630.

Knowledge of history, research, current practice and public policy issues in the field of second languague education from kindergarten to post-secondary settings. Required for TESOL certification program.

Contact department for information to register for this course.

TLPL665 **Methods of Teaching ESOL**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI634 or TLPL665. Formerly: EDCI634.

This course presents a survey of the historical and current approaches, methods, and techniques of teaching English to speakers of other languages, from grammar to translation to audiolingual and communicative approaches. Additionally, successful classroom practices that address the needs of culturally diverse and language minority students will be analyzed.

Contact department for information to register for this course.

TLPL676 **Teaching as a Profession**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI690 or TLPL676. Formerly: EDCI690.

The profession of teaching and the knowledge base that defines teaching. Current and social issues that affect teaching and learning; role of research and experience in learning to teach.

Contact department for information to register for this course.

TLPL685 **Teaching Social Studies in Elementary Schools**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI622 or TLPL685. Formerly: EDCI622.

Examination of current literature and research in the social sciences as they relate to social studies curriculum and instruction.

CITE Program Outreach Offering. Registration restricted to program participants.

Contact department for information to register for this course.

TLPL688B **Special Topics in Education; Foundations of Education**

Credits: 3 Grading Method: Regular, Audit

Special treatment of current topics and issues in teaching, learning, policy and leadership.

Contact department for information to register for this course.

TLPL688I **Special Topics in Education; Art Integration**

Credits: 3 Grading Method: Regular, Audit

Special treatment of current topics and issues in teaching, learning, policy and leadership.

WB61	Margaret Walker	Seats (Total: 15)
	Meets August 1, 2022 - August 19, 2022	
	MTuWTh 8:30am - 5:00pm	ONLINE

TLPL689 **Internship in Education**

Credits: 1-12 Grading Method: Regular, Audit

Internship or residency experiences in school settings with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

Contact department for information to register for this course.

TLPL691 **Research Methods**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI685 or TLPL691. Formerly: EDCI685.

The interpretation and conduct of research relevant to curriculum, teaching and learning.

0101	Wayne Slater	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	TuTh 4:30pm - 7:45pm Class time/details on ELMs	ASY 3221 ONLINE

TLPL694 **Embracing Diversity: Critical Foundations of Schooling and Education**

Credits: 3 Grading Method: Regular

Introduces teacher candidates to critical, sociocultural foundations of U.S. schooling, education, and society. Teacher candidates interrogate what it means to be an anti-racist, social justice-oriented educator in a pluralistic classroom.

Contact department for information to register for this course.

TLPL699 **Master's Seminar**

Credits: 3 Grading Method: Regular, Audit

Directed study for master's degree students writing seminar papers.

Contact department for information to register for this course.

TLPL733 **Advanced Clinical Practices in Reading Assessment**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: TLPL654. Corequisite: TLPL734. Credit only granted for: EDCI761 or TLPL733. Formerly: EDCI761.

Clinical practicum in assessment focusing on strengths and needs in reading. Case report writing and conferences.

0101	Ayanna Baccus	Seats (Total: 20)
	Meets June 27, 2022 - July 29, 2022	
	MTuWTh 9:00am - 12:00pm	ASY 3211
	Class time/details on ELMs	ONLINE

TLPL734 **Advanced Clinical Practices in Reading Instruction**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: TLPL654. Corequisite: TLPL733. Credit only granted for: EDCI762 or TLPL734. Formerly: EDCI762.

Clinical practicum in instruction focusing on instructional techniques and diagnostic teaching.

0101	Ayanna Baccus	Seats (Total: 20)
	Meets June 27, 2022 - July 29, 2022	
	MTuWTh 1:00pm - 4:00pm	ASY 3203
	Class time/details on ELMs	ONLINE

TLPL788B **Special Topics in Education; Conservative Educational Thought**

Credits: 3

Grading Method: Regular, Audit, Sat-Fail

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

WB11	Campbell Scribner	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	TuTh 4:15pm - 7:25pm	ONLINE

TLPL798 **Special Problems in Education**

Credits: 1-6

Grading Method: Regular, Audit

Exploration of current problems in teaching, learning, policy and leadership. Available only to master's or doctoral candidates under the direction of their advisors.

Contact department for information to register for this course.

TLPL888 **Apprenticeship in Education**

(Perm req)

Credits: 1-8

Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

TLPL889 **Internship in Education**

Credits: 3-8

Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

0115	Andrew Elby	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0215	Andrew Elby	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

I205	David Weintrop	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	
I221	John O'Flahavan	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

TLPL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

0107	James McGinnis	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0207	James McGinnis	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

TLPL899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

0111	Janet Walkoe	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0112	Andrew Brantlinger	Seats (Total: 5)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
0211	Janet Walkoe	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	
0212	Andrew Brantlinger	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

0216	Betty Malen **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0218	Wayne Slater **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0220	Francine Hultgren **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I124	Jennifer Turner **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I125	David Blazar **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
I220	Francine Hultgren **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I221	John O'Flahavan **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I224	Jennifer Turner **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I225	David Blazar **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
I228	Tara Brown **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

I279	Imani Goffney	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

TLTC Teaching and Learning Transformation Center — Summer 2022

TLTC699B **Special Topics in University Teaching and Learning; CIRTL Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular

Special topics seminars for graduate students interested in university teaching and learning.

Restriction: Permission of TLTC required. Contact department for information to register.

0201	Marissa Stewart	Seats (Total: 10)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

UMEI Maryland English Institute — Summer 2022

UMEI012 **Integrated English: Intermediate**

(Perm req)

Credits: 5 Grading Method: Sat-Fail

Prerequisite: Placement exam; and permission of EDUC-Dean-Maryland English Institute department.

English as a Second Language course for students at the intermediate level.

UM10	Louise Godley	Seats (Total: 15)
	Meets June 6, 2022 - July 21, 2022	
	MTuWTh 9:00am - 12:30pm	LEF 1220

UMEI013 **Integrated English: Advanced**

Credits: 5 Grading Method: Sat-Fail

Prerequisite: Placement exam; and permission of EDUC-Dean-Maryland English Institute department.

English as a Second Language for students at the advanced level.

UM10	Louise Godley	Seats (Total: 15)
	Meets June 6, 2022 - July 21, 2022	
	MTuWTh 9:00am - 12:30pm	LEF 1220

UMEI028A **Special Topics in English as a Second Language; Preparation for Academic Study**

Credits: 1 Grading Method: Sat-Fail

Focuses on particular English language topics for ESL student as indicated by title. Course intended to be taken concurrently with UMEI011, UMEI012, or UMEI013; but may be taken independently with special permission.

UM10	Elizabeth Driver	Seats (Total: 15)
	Meets June 6, 2022 - July 22, 2022	
	W 1:30pm - 3:30pm	LEF 1220
	F 10:00am - 12:30pm	LEF 1220

UMEI028V **Special Topics in English as a Second Language; Vocabulary**

Credits: 1 Grading Method: Sat-Fail

Focuses on particular English language topics for ESL student as indicated by title. Course intended to be taken concurrently with UMEI011, UMEI012, or UMEI013; but may be taken independently with special permission.

UM10	Raymond Smith	Seats (Total: 15)
	Meets June 6, 2022 - July 21, 2022	
	TuTh 1:30pm - 3:30pm	LEF 1220

UNIV University Courses Summer 2022

UNIV099 **Internship Seminar**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Complements students' supervised work experiences. Open to all majors; all class levels. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.

Permission of Internship Coordinator required. Obtain signature and more information at the Career Center, 3100 Hornbake Library. Special fee required for this course.

CP20	Erin Rooney-Eckel, Erica Ely, Jenny Sak	Seats (Total: 84)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	
CP21	Erin Rooney-Eckel, Erica Ely, Jenny Sak	Seats (Total: 90)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	

CP22	Erin Rooney-Eckel **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 20)

UNIV102 **Confidence Building and Study Skills in Mathematics**

Credits: 2 Grading Method: Regular, Pass-Fail

Restriction: Must be in uTerp Individual Admits program.

A mathematics preparatory class designed to facilitate a student's transition toward fundamental studies mathematics, including study skills and strategies for success.

LS21	Nicholas Acha, Matthew Wilson **Meets July 5, 2022 - July 29, 2022** MWF 9:00am - 11:30am	Seats (Total: 20) PHY 2124
LS22	Matthew Wilson, Mary Petras **Meets July 5, 2022 - July 29, 2022** MWF 9:00am - 11:30am	Seats (Total: 20) PHY 2213
LS23	Matthew Wilson, Veronica Carlan **Meets July 5, 2022 - July 29, 2022** MWF 9:00am - 11:30am	Seats (Total: 20) PHY 2211

UNIV104 **Reading and Writing at the College Level**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail

Restriction: Must be in uTerp Individual Admits program.

A workshop designed to enhance students' college level reading and writing abilities to include study skills and strategies for success.

Must be in uTerp Individual Admits program

LS51	Tasha Harris **Meets July 5, 2022 - July 29, 2022** TuTh 9:45am - 11:30am	Seats (Total: 20) PLS 1113

LS52	Nicki Kern	Seats (Total: 20)
	Meets July 5, 2022 - July 29, 2022	
	TuTh 9:45am - 11:30am	PLS 1119

UNIV269A **Connecting Across Cultures**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.

Contact department for information to register for this course.

UNIV269C **Connecting Across Cultures; China: Culture, Language and Internship Program**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.

Contact department for information to register for this course.

UNIV339 **McNair Research Methods and Writing**

Credits: 2 | Grading Method: Regular, Pass-Fail, Audit

As an introduction to qualitative and quantitatvie research methods, students will be taught how to: (1) create, analyze, and disseminate knowledge conceptually and empirically; (2) write a research document; (3) use the IRB process; (4) develop research posters; (5) read and evaluate research studies; (6) read and understand statistics; (7) conduct interviews, develop surveys, and design experiments; and (8) communicate effectively to public audiences.

Contact department for information to register for this course.

UNIV362 **Designing Your Life after College**

Credits: 2 | Grading Method: Regular, Pass-Fail, Audit

Restriction: Must have earned a minimum of 60 credits.

Helps students anticipate and prepare for changes in finances, social life, health, and career dynamics they are likely to experience as they transition from college to working full-time. It focuses on understanding what resources students have as they enter the workforce as critical for navigating post-graduation changes successfully. It offers an overview of financial, risk management and professional development approaches to increase students' confidence regarding post-graduation decisions; in addition, it develops their creative problem solving and reflection skills to help them align the outcomes of their decisions with their values.

WB11	Gerry Strumpf, Tori Shay	Seats (Total: 50)
	Meets May 31, 2022 - July 8, 2022	
	M 4:30pm - 6:30pm	ONLINE
	Class time/details on ELMs	ONLINE

UNIV389J **Special Topics in Undergraduate Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

0101	Joan Burton	Seats (Total: 25)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	

UNIV399 **Experiential Learning in Undergraduate Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Experiential learning offered in conjunction with certain designated Office of Undergraduate Studies programs.

Contact department for information to register for this course.

URSP Urban Studies and Planning Summer 2022

URSP399I **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular

Directed research and study of selected aspects of urban affairs.

Contact department for information to register for this course.

URSP688K **Recent Developments in Urban Studies; Urban Design Software & Graphic Representation**

Credits: 3

Grading Method: Regular, Audit, Sat-Fail

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

WB11	Amber Wendland	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	TuTh 4:00pm - 7:10pm	ONLINE

URSP705 **Summer Community Planning Studio I**

Credits: 4

Grading Method: Regular, Audit

Restriction: Permission of instructor.

Intensive community planning group field work, typically five days a week for four weeks. Often outside the USA. Application of class work to actual planning and policy challenges. Students seeking to meet the URSP studio requirement must also take URSP 706.

A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

Contact department for information to register for this course.

URSP706 **Summer Community Planning Studio II**

Credits: 2

Grading Method: Regular, Audit

Restriction: Permission of instructor.

Intensive analysis and report-preparation of work completed in URSP 705. Held in College Park. Students seeking to meet the URSP studio requirement must also take URSP 705.

Contact department for information to register for this course.

URSP709 **Field Instruction**

Credits: 3

Grading Method: Regular, Audit

Students will satisfy a 300-hour internship (20 hours for 15 weeks during the spring, 25 hours a week for 12 weeks during the summer). Suitable internships are approved by the Internship Coordinator or Instructor; they involve a significant amount of planning work (preferably in the student's are of interest) and provide an appropriate on-site supervisor. The Internship Coordinator will assist students in finding a suitable internship, but the ultimate responsibility rests with each student. Whether the internship is paid or not is a matter to be worked out between the student and the organization.

0101	Clara Irazabal Zurita	Seats (Total: 20)
	Meets May 31, 2022 - July 8, 2022	
	Contact instructor or department for details.	
	Contact instructor or department for details.	
0201	Clara Irazabal Zurita	Seats (Total: 5)
	Meets July 11, 2022 - August 19, 2022	
	Contact instructor or department for details.	
	Contact instructor or department for details.	

URSP788 **Independent Study in Urban Studies and Planning**

(Perm req)

Credits: 1-3 Grading Method: Regular

Directed research and study of selected aspects of urban affairs.

Contact department for information to register for this course.

URSP798 **Readings in Urban Studies and Planning**

(Perm req)

Credits: 1-3 Grading Method: Regular

Directed readings in selected aspects of urban affairs and planning.

Contact department for information to register for this course.

URSP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Selected topics in Urban Studies and Planning. Topics will vary with the instructor.

Contact department for information to register for this course.

URSP899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

This course is a required course for the Ph.D program in Urban and Regional Planning and Design.

Contact department for information to register for this course.

VMSC Veterinary Medical Sciences Summer 2022

VMSC699 **Special Problems in Veterinary Medical Sciences**

Credits: 1-4 Grading Method: Regular

Independent study of a specific problem related to veterinary medicine such as a disease outbreak, application of a new diagnostic test or a risk analysis related to animal health. Targeted at veterinary medicine (DVM) students and other graduate students with a background in veterinary medicine.

Contact department for information to register for this course.

VMSC799 **Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

VMSC899 **Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0124	Xiaoping Zhu **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0127	Meiqing Shi **Meets May 31, 2022 - July 8, 2022** Contact instructor or department for details.	Seats (Total: 5)
0224	Xiaoping Zhu **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)
0227	Meiqing Shi **Meets July 11, 2022 - August 19, 2022** Contact instructor or department for details.	Seats (Total: 5)

WGSS Women, Gender, and Sexuality Studies — Summer 2022

WGSS200 **Introduction to WGSS: Gender, Power, and Society**

Credits: 3 Grading Method: Regular General Education: DSHS, DVUP

Credit only granted for: WMST200 or WGSS200. Formerly: WMST200.

Examines constructions of race, class, sexuality, ability, and gender relations from a social science multi-disciplinary perspective. The course interrogates the ways that systems of hierarchy and privilege are created, enforced, and intersect through the language of race, class, sexuality, and national belonging. The course will provide students with the skills to examine how systems of power manifest in areas such as poverty, division of labor, health disparities, policing, violence. In addition to examining the impact of systems of power, students will reflect on their own location within the exercise of racialized, and gendered power relations. This course encourages students to understand and critique these systems both personally and politically.

WB41	Adreanna Nattiel	Seats (Total: 30)
	Meets July 11, 2022 - July 29, 2022	
	MTuWTh 11:00am - 1:20pm	ONLINE
	Class time/details on ELMs	ONLINE

WGSS250 **Introduction to WGSS: Art and Culture**

Credits: 3 Grading Method: Regular General Education: DSHU, DVUP

Credit only granted for: WMST250 or WGSS250. Formerly: WMST250.

Provides students with a critical introduction to the ways that art and art activism have served as a conduit to understanding and challenging systems of inequity and practices of normativity. Interrogating the categories of gender, sexuality, race, class, ability, the course will provide students with an examination of how artists have responded to pressing social justice issues of their eras. While the course centers visual art, students will also engage genres such as music, plays, literature, digital and performance art as arenas of social change.

WB11	Eva Peskin	Seats (Total: 30)
	Meets May 31, 2022 - July 8, 2022	
	Class time/details on ELMs	ONLINE
WB21	Damien Hagen	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

WGSS290 **Bodies in Contention**

Credits: 3 Grading Method: Regular General Education: DSHS, DVUP, SCIS

Credit only granted for: WMST298D or WGSS290. Formerly: WMST298D.

Explores the contributions of feminist scholarship in framing and resolving contemporary controversies concerning gendered bodies. It includes the ways in which knowledge about the human body has been shaped by cultural ideas of gender, race, sexuality and ability.

WB21	Jaime Madden	Seats (Total: 30)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

WGSS368 **Undergraduate WGSS Internship**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Undergraduate Internship in a position related to women, gender, and sexuality studies and overseen by a member of the WGSS faculty.

WB21	Neel Ahuja	Seats (Total: 4)
	Meets July 11, 2022 - August 19, 2022	
	Class time/details on ELMs	ONLINE

WGSS379L **Topics in Women, Gender, and Sexuality Studies; Online and in the Streets: Protest and Activism in Latin American Feminist Movements**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in women, gender, and sexuality studies.

Cross-listed with LACS348A and HIST328I. Credit only granted for LACS348A, WGSS379L, or HIST328I. An interdisciplinary approach to Latin American and Caribbean history, culture, and politics, through the lenses of feminist protest and activism. The class explores how activists fight for change, both online and in the streets and how feminists agendas changed over time. Taught in collaboration with Universidad Nacional de Tres Febrero, Argentina. Students will share discussions with students from Argentina and learn from scholars and activists from the Global South.

GC01	Sabrina Gonzalez	Seats (Total: 20)
	Meets July 11, 2022 - July 29, 2022	
	TuTh 4:00pm - 6:00pm	ONLINE
	Class time/details on ELMs	ONLINE

WGSS498M **Advanced Special Topics in Women, Gender, and Sexuality Studies; Women and the Civil Rights Movement**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced study of a thematic topic in women, gender, and sexuality studies.

WB31	Elsa Barkley Brown	Seats (Total: 40)
	Meets May 31, 2022 - June 17, 2022	
	Class time/details on ELMs	ONLINE
	Cross-listed with HIST360 and AASP498I. Credit only granted for HIST360, AASP498I, WGSS498M, or WMST498M.	